

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

# APPLICATION FOR PERMIT TO DRILL, DEEPEN

1a. TYPE OF WORK **DRILL** ☐ **DEEPEN** ☒

1b. TYPE OF WELL

OIL ☒ GAS ☐ OTHER ☐ SINGLE ZONE ☐ MULTIPLE ZONE ☒

2. NAME OF OPERATOR

**Newfield Production Company**

3. ADDRESS AND TELEPHONE NUMBER:

**Route #3 Box 3630, Myton, UT 84052****Phone: (435) 646-3721**

4. LOCATION OF WELL (FOOTAGE)

At Surface

**NW/SE****573305' X 4435968' 40.672655 -110.240340**

At proposed Producing Zone

**SE****2644' FSL 2640' FEL****573110' X 4436164' 40.074467 -110.142602**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

**Approximately 11.0 miles southwest of Myton, UT**

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)

**Approx. 2640' f/lse line and 2636' f/unit line**

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR ON THIS LEASE, FT

**Approximately 1287' (Down Hole)**

16. NO. OF ACRES IN LEASE

**640.00**

17. NO. OF ACRES ASSIGNED TO THIS WELL

**20**

19. PROPOSED DEPTH

**6500'**

20. ROTARY OR CABLE TOOLS

**Rotary**

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

**5754' GL**

22. APPROX. DATE WORK WILL START\*

**4th Quarter 2006**

## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT
<b>12 1/4</b>	<b>8 5/8</b>	<b>24#</b>	<b>290'</b>	<b>155 sx +/- 10%</b>
<b>7 7/8</b>	<b>5 1/2</b>	<b>15.5#</b>	<b>TD</b>	<b>275 sx lead followed by 450 sx tail</b>
				<b>See Detail Below</b>

DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give date on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

**\*The actual cement volumes will be calculated off of the open hole logs, plus 15% excess:**

**SURFACE PIPE** - 155 sx Class G Cement +/- 10%, w/ 2% CaCl<sub>2</sub> & 1/4#/sk Cello-flake

Weight: 15.8 PPG YIELD: 1.17 Cu Ft/sk H<sub>2</sub>O Req: 5 gal/sk

**LONG STRING** - Lead: Premium Lite II Cement + 3lbs/sk BA-90 + 3% KCl + .25 lbs/sk Cello Flake + 2 lbs/sk Kol Seal + 10% Bentonite + .5% Sodium Metasilicate

Weight: 11.0 PPG YIELD: 3.43 Cu Ft/sk H<sub>2</sub>O Req: 21.04 gal/sk

Tail: 50-50 Poz-Class G Cement + 3% KCl + .25 lbs/sk Cello Flake + 2% Bentonite + .3% Sodium Metasilicate

Weight: 14.2 PPG YIELD: 1.59 Cu Ft/sk H<sub>2</sub>O Req: 7.88 gal/sk

24.

Name &amp; Signature

*Mandie Crozier*  
**Mandie Crozier**

Regulatory Specialist

Date:

**6/16/2006**

(This space for State use only)

API Number Assigned

**43-013-33222**

APPROVAL:

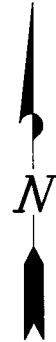
**RECEIVED****JUN 23 2006**

\*See Instructions On Reverse Side

DIV. OF OIL, GAS &amp; MINING

*NEWFIELD PRODUCTION COMPANY*

WELL LOCATION, WELLS DRAW  
M-32-8-16, LOCATED AS SHOWN IN  
THE NW 1/4 SE 1/4 OF SECTION 32,  
T8S, R16E, S.L.B.&M. DUCHESNE  
COUNTY, UTAH.



**Note:**

1. The bottom of hole bears N44°08'20"W  
906.24' from the well head.

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
PREPARED FROM FIELD WORK OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
MY KNOWLEDGE AND BELIEF. No. 189377

STACY W.  
STEWART  
REGISTERED LAND SURVEYOR  
REGISTRATION No. 10033  
STATE OF UTAH

**TRI STATE LAND SURVEYING & CONSULTING**

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

DATE SURVEYED:  
05-23-06

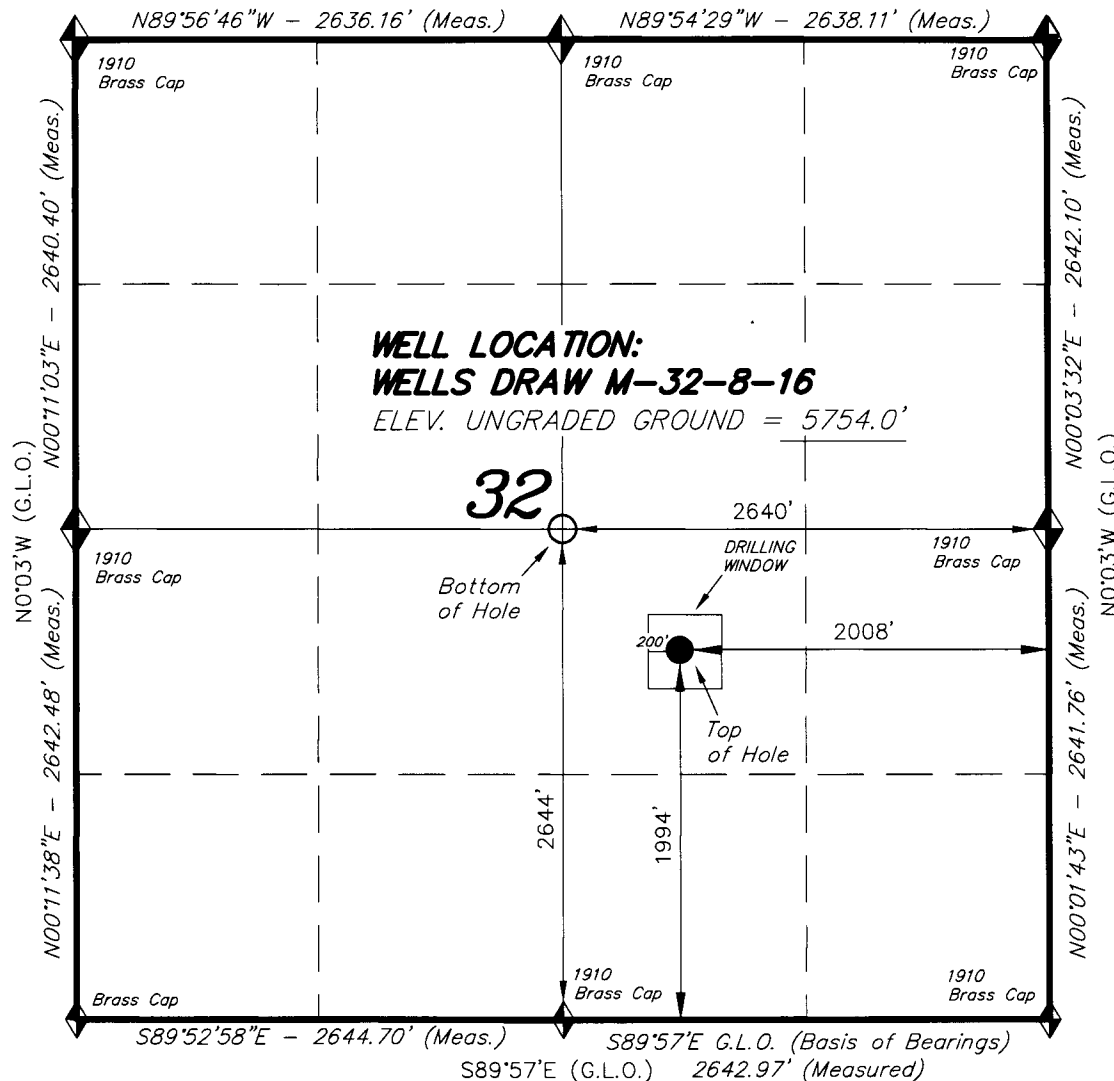
SURVEYED BY: C.M.

DATE DRAWN:  
05-24-06

DRAWN BY: F.T.M.

REVISÉ:

SCALE: 1" = 1000'



 = SECTION CORNERS LOCATED

BASIS OF ELEV;  
U.S.G.S. 7-1/2 min QUAD (MYTON SW)

WELLS DRAW M-32-8-16  
(Surface Location) NAD 83  
LATITUDE = 40° 04' 21.57"  
LONGITUDE = 110° 08' 27.74"

**NEWFIELD**



ROCKY MOUNTAINS

June 27, 2006

43-013-33222

Ms. Diana Whitney  
State of Utah, Div. of Oil, Gas and Mining  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

Re: Directional Drilling R649-3-11; Wells Draw Unit UTU-72613A  
State of Utah ML-21836, Duchesne Co., UT  
State M-32-8-16; 1994' FSL, 2008' FEL (at surface)  
2644' FSL, 2640' FEL (bottomhole)  
Section 32-T8S-R16E

Dear Ms. Whitney:

Pursuant to the filing of Newfield Production Company's (hereinafter "NPC") Application for Permit to Drill dated 06/16/06 (copies enclosed herewith) which concern the well referenced above, NPC is hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling.

This drillsite location is located within the boundaries of the Wells Draw Unit UTU-72613A. NPC is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, NPC will be able to utilize the existing the existing road and pipelines in the area.

Furthermore, NPC hereby certifies that NPC is the Wells Draw Unit Operator and all lands within 460 feet of the entire directional well bore is within the Wells Draw Unit.

Therefore, based on the above stated information NPC requests that the permit be granted pursuant to R649-3-11. Thank you for your consideration in this matter.

Sincerely,

Newfield Production Company

Rhonda Deimer  
Land Associate

Enclosures

**RECEIVED**

**JUN 29 2006**

**DIV. OF OIL, GAS & MINING**

FORM 3

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

## APPLICATION FOR PERMIT TO DRILL, DEEPEN

1a. TYPE OF WORK

DRILL

☒ DEEPEN

1b. TYPE OF WELL

OIL

☒

GAS

☐

OTHER

☐

SINGLE

ZONE

MULTIPLE

ZONE

2. NAME OF OPERATOR

Newfield Production Company

3. ADDRESS AND TELEPHONE NUMBER:

Route #3 Box 3630, Myton, UT 84052

Phone: (435) 646-3721

4. LOCATION OF WELL (FOOTAGE)

At Surface

NW/SE

1994' FSL 2008' FEL

At proposed Producing Zone

SE

2644' FSL 2640' FEL

5. LEASE DESIGNATION AND SERIAL NO.

ML-21836

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

Wells Draw

8. FARM OR LEASE NAME

N/A

9. WELL NO.

Wells Draw State #M-32-8-16

10. FIELD AND POOL OR WILDCAT

Monument Butte

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN

NW/SE

Sec. 32, T8S, R16E

12. County

Duchesne

13. STATE

UT

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

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*Mandie Crozier*  
Mandie Crozier

Regulatory Specialist

Date:

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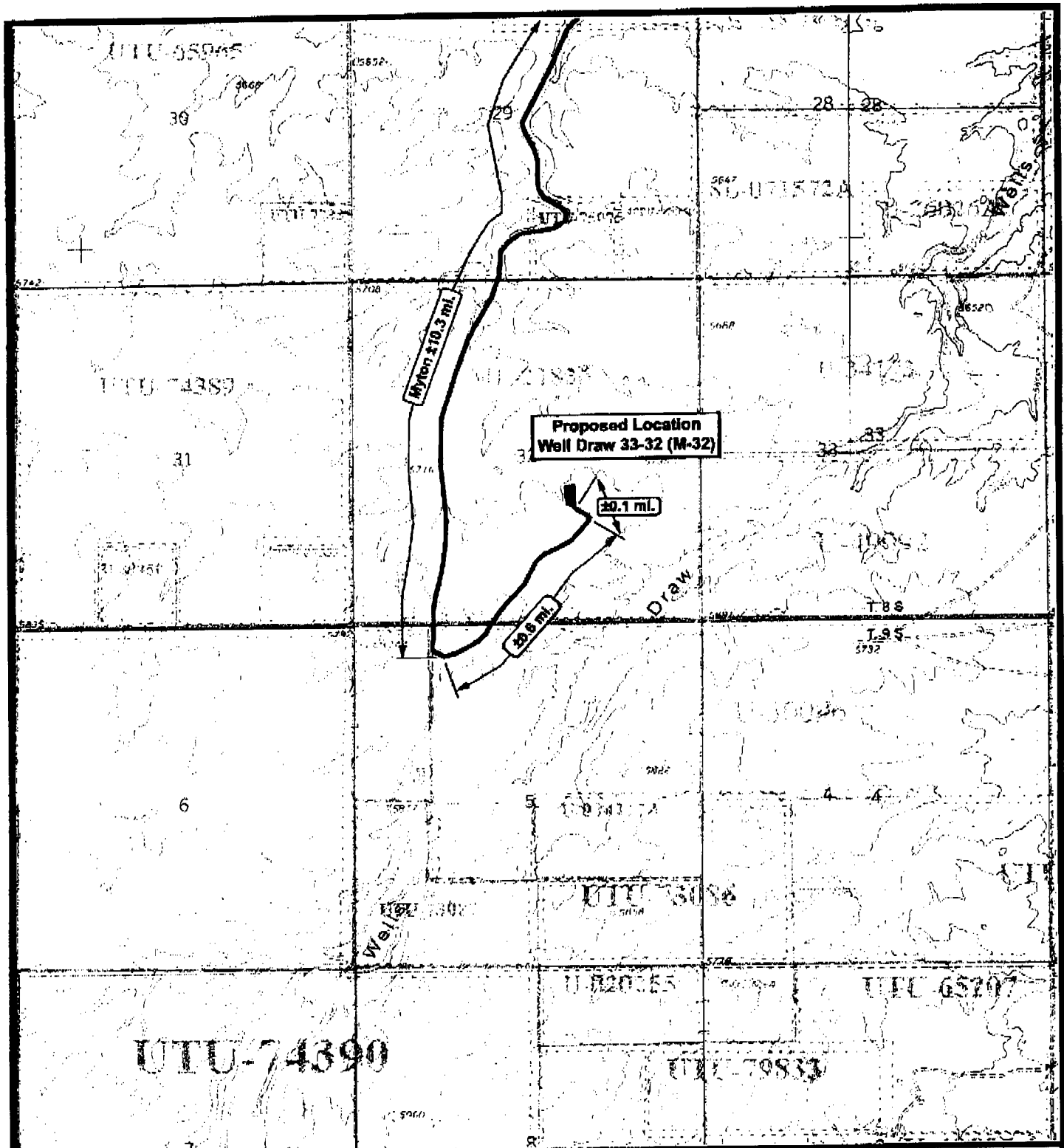
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\*See Instructions On Reverse Side

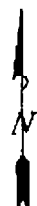
RECEIVED  
JUN 29 2006  
DIV. OF OIL, GAS & MINING





Tri-State  
Land Surveying Inc.

**Wells Draw 33-32-8-16 (M-32)  
SEC. 32, T8S, R16E, S.L.B.&M.**



**Tri-State  
Land Surveying Inc.**  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84076

SCALE: 1" = 2,000'  
DRAWN BY: mw  
DATE: 05-25-2006

**Legend**

Existing Road

TOPOGRAPHIC MAP

**"B"**

NEWFIELD PRODUCTION COMPANY  
WELLS DRAW STATE #M-32-8-16  
NW/SE SECTION 32, T8S, R16E  
DUCHESNE COUNTY, UTAH

TEN POINT DRILLING PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

2. **ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0 – 1700'
Green River	1700'
Wasatch	6500'

3. **ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation 1700' – 6500' – Oil

4. **PROPOSED CASING PROGRAM:**

Surface Casing: 8-5/8" J-55 24# w/ST&C collars; set at 290' (New)  
Production Casing: 5-1/2" J-55, 15.5# w/LT&C collars; set at TD (New or used, inspected).

5. **MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

The operator's minimum specifications for pressure control equipment are as follows:

An 8" Double Ram Hydraulic unit with a closing unit will be utilized. Function test of BOP's will be check daily.

Refer to **Exhibit C** for a diagram of BOP equipment that will be used on this well.

6. **TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

The well will be drilled with a fresh water/polymer system will be utilized. If necessary, to control formation fluids, the system will be weighted with the addition of bentonite gel, and if conditions warrant, barite. This fresh water system typically will contain Total Dissolved Solids (TDS) of less than 3000 PPM. Neither potassium chloride nor chromates will be utilized in the fluid system. The anticipated mud weight is 8.4 ppg and weighted as necessary for gas control.

**MUD PROGRAM**

Surface – 3200'  
3200' – TD'

**MUD TYPE**

fresh water  
fresh water system

From about surface to TD, a fresh water system will be utilized. Clay inhibition and hole stability will be achieved with a KCL substitute additive. This fresh water system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight is 8.4 lbs/gal. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite. No chromate additives will be used in the mud system.

7. **AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Auxiliary safety equipment will be a Kelly Cock, bit float, and a TIW valve with drill pipe threads.

8. **TESTING, LOGGING AND CORING PROGRAMS:**

The logging program will consist of a Dual Induction, Gamma Ray and Caliper log from TD to base of surface casing @ 290' +/-, and a Compensated Neutron-Formation Density Log from TD to 3500' +/- . A cement bond log will be run from PBTD to cement top. No drill stem testing or coring is planned for this well.

9. **ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

The anticipated maximum bottom hole pressure is 2000 psi. It is not anticipated that abnormal temperatures will be encountered; or that any other abnormal hazards such as H<sub>2</sub>S will be encountered in this area.

10. **ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

It is anticipated that the drilling operations will commence the fourth quarter of 2006, and take approximately seven (7) days from spud to rig release.



NEWFIELD PRODUCTION COMPANY  
WELLS DRAW STATE #M-32-8-16  
NW/SE SECTION 32, T8S, R16E  
DUCHESNE COUNTY, UTAH

THIRTEEN POINT SURFACE PROGRAM

1. **EXISTING ROADS**

See attached **Topographic Map “A”**

To reach Newfield Production Company well location site Wells Draw State M-32-8-16 located in the NW ¼ SE ¼ Section 32, T8S, R16E, S.L.B. & M., Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles ± to the junction of this highway and UT State Hwy 53; proceed southwesterly along Hwy 53 - 1.7 miles ± to it's junction with an existing road to the southwest; proceed in a southwesterly direction - 7.0 miles ± to it's junction with an existing road to the northeast; proceed northeasterly - 0.6 miles to it's junction with the access road to the existing 33-32-8-16 well location. The proposed #M-32-8-16 will be drilled directionally off of the existing well pad.

The highways mentioned in the foregoing paragraph are bituminous surfaced roads to the point where Highway 216 exists to the South, thereafter the roads are constructed with existing materials and gravel. The highways are maintained by Utah State road crews. All other roads are maintained by County crews.

The aforementioned dirt oil field service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing area they are located in and range from clays to a sandy-clay shale material.

The roads for access during the drilling, completion and production phase will be maintained at the standards required by the State of Utah, or other controlling agencies. This maintenance will consist of some minor grader work for smoothing road surfaces and for snow removal.

2. **PLANNED ACCESS ROAD**

There is no proposed access road for this location. The proposed well will be drilled off of the existing 33-32-8-16 well pad. See attached **Topographic Map “B”**.

There will be no new gates or cattle guards required.

3. **LOCATION OF EXISTING WELLS**

Refer to **EXHIBIT B**.

4. **LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

The proposed well will be drilled directionally off of the existing 33-32-8-16 well pad. There will be a pumping unit and a short flow line added to the existing tank battery for the proposed M-32-8-16.

It is anticipated that this well will be a producing oil well.

Upon construction of a tank battery, the well pad will be surrounded by a dike of sufficient capacity to contain at minimum 110% of the largest tank volume within the facility battery.

Tank batteries will be built to State specifications.

All permanent (on site for six (6) months or longer) structures, constructed or installed (including pumping units), will be painted Desert Tan. All facilities will be painted within six months of installation.

5. **LOCATION AND TYPE OF WATER SUPPLY**

Fresh water purchased from the Johnson Water District will be used for drilling. A temporary poly pipeline may be used for water transportation from our existing supply line from Johnson Water District, or trucked from Newfield Production Company's injection facilities – **EXHIBIT A**.

6. **SOURCE OF CONSTRUCTION MATERIALS**

The proposed Wells Draw State M-32-8-16 will be drilled off of the existing 33-32-8-16 well pad. No additional surface disturbance will be required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

A small reserve pit (90' x 40' x 8' deep, or less) will be constructed from native soil and clay materials. The reserve pit will receive the processed drill cutting (wet sand, shale & rock) removed from the wellbore. Any drilling fluids, which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed. All drilling fluids will be fresh water based, typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride, chromates, trash, debris, nor any other substance deemed hazardous will be placed in this pit. Therefore, it is proposed that no synthetic liner be required in the reserve pit. However, if upon constructing the pit there is insufficient fine clay and silt present, a liner will be used for the purpose of reducing water loss through percolation.

Newfield requests approval that a flare pit not be constructed or utilized on this location.

A portable toilet will be provided for human waste.

A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

8. **ANCILLARY FACILITIES:**

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. **WELL SITE LAYOUT:**

See attached Location Layout Sheet.

**Fencing Requirements**

All pits will be fenced according to the following minimum standards:

- a) A 39-inch net wire shall be used with at least one strand of barbed wire on top of the net.
- b) The net wire shall be no more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
- c) Corner posts shall be centered and/or braced in such a manner to keep tight at all times
- d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.
- e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

10. **PLANS FOR RESTORATION OF SURFACE:**

a) **Producing Location**

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, material, trash and junk not required for production.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximated natural contours. Weather permitting, the reserve pit will be reclaimed within one hundred twenty (120) days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed.

b) **Dry Hole Abandoned Location**

At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the State of Utah will attach the appropriate surface rehabilitation conditions of approval.

11. **SURFACE OWNERSHIP:** State of Utah

12. **OTHER ADDITIONAL INFORMATION:**

- a) Newfield Production Company is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, Newfield is to immediately stop work that might further disturb such materials and contact the Authorized Officer.

- b) Newfield Production will control noxious weeds along rights-of-way for roads, pipelines, well sites or other applicable facilities. On State administered land it is required that a Pesticide Use Proposal shall be submitted and given approval prior to the application of herbicides or other possible hazardous chemicals.
- c) Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on State Lands after the conclusion of drilling operations or at any other time without State authorization. However, if State authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

#### **Additional Surface Stipulations**

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws and regulations, Onshore Oil and Gas Orders, the approved plan of operations and any applicable Notice to Lessees. A copy of these conditions will be furnished to the field representative to ensure compliance.

#### **Hazardous Material Declaration**

Newfield Production Company guarantees that during the drilling and completion of the Wells Draw State M-32-8-16, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the Wells Draw State M-32-8-16 Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling activities.

Newfield Production Company or a contractor employed by Newfield Production shall contact the State office at (801) 722-3417, 48 hours prior to construction activities.

The State office shall be notified upon site completion prior to moving on the drilling rig.

#### **13. LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION:**

##### Representative

Name:	Shon McKinnon	Brad Mecham
Address:	Newfield Production Company	Newfield Production Company
	Route 3, Box 3630	Route 3, Box 3630
	Myton, UT 84052	Myton, UT 84052
Telephone:	(435) 646-3721	(435) 646-4811

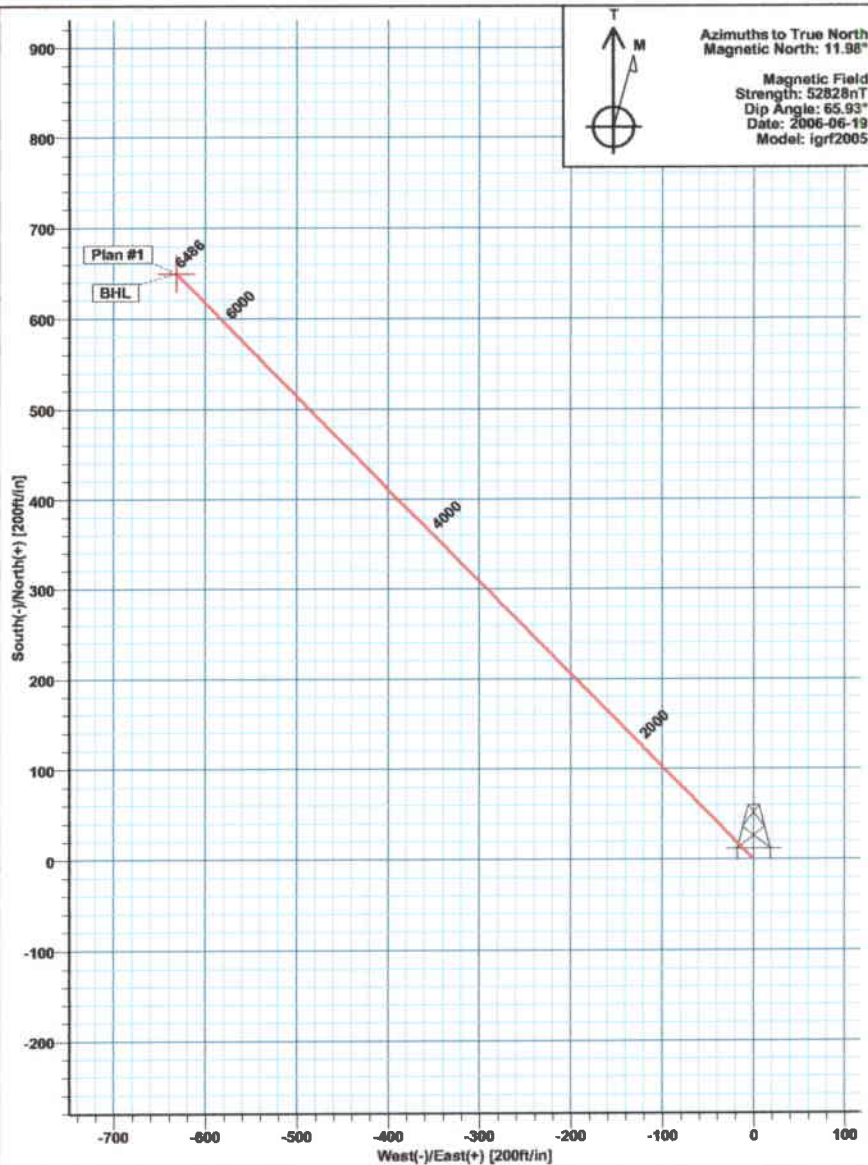
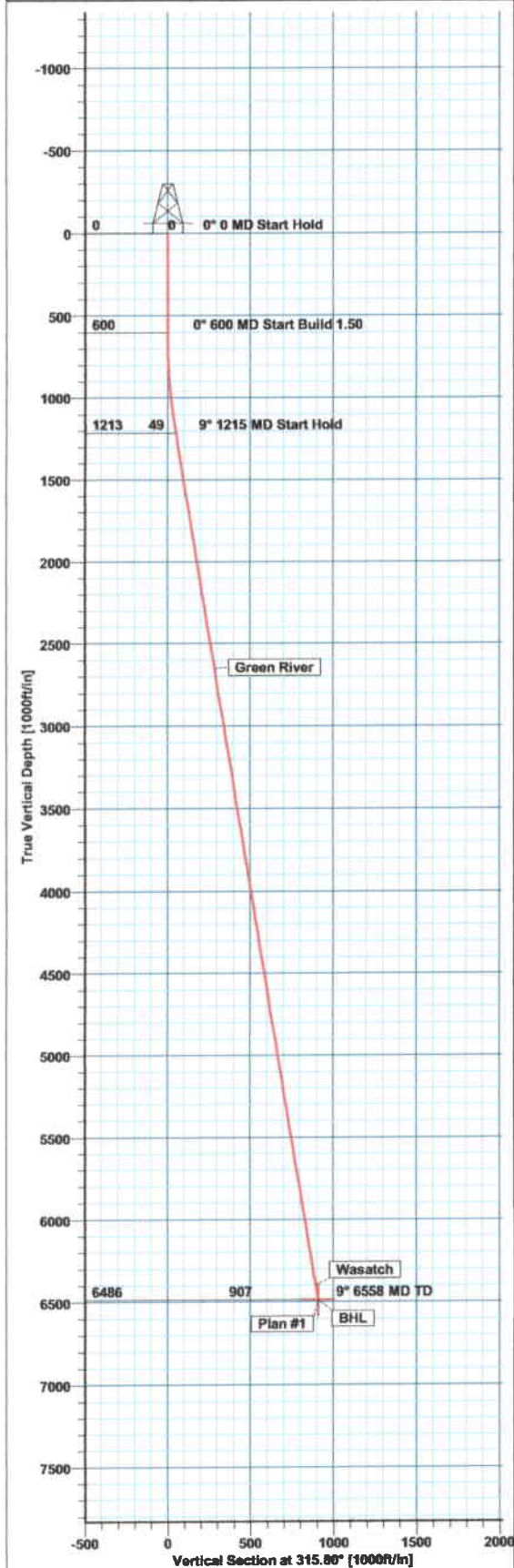
##### Certification

Please be advised that Newfield Production Company is considered to be the operator of well #M-32-8-16, NW/SE Section 32, T8S, R16E, LEASE #ML-21836, Duchesne County, Utah and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4471291.

I hereby certify that the proposed drill site and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of the 18 U.S.C. 1001 for the filing of a false statement.

\_\_\_\_\_  
June 16, 2006  
Date

  
\_\_\_\_\_  
Mandie Crozier  
Regulatory Specialist  
Newfield Production Company



#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	DLag	TFace	VSec	Target
1	0.00	0.00	315.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	600.00	0.00	315.00	600.00	0.00	0.00	0.00	0.00	0.00	
3	1215.40	0.23	315.00	1212.63	35.48	-34.48	1.58	315.00	40.48	
4	6557.97	0.23	315.00	6486.00	650.80	-632.00	0.00	0.00	906.60	BHL

#### WELL DETAILS

Name	+N-S	+E-W	Northing	Easting	Latitude	Longitude	Slot
WD M-32-8-16	0.00	0.00	7198093.05	2020897.66	40°04'21.570N	110°08'27.740W	N/A

#### SITE DETAILS

Wells Draw M-32-8-16  
Sec. 32 T8S R16E  
Site Centre Latitude: 40°04'21.570N  
Longitude: 110°08'27.740W  
Ground Level: 5754.00  
Positional Uncertainty: 0.00  
Convergence: 0.87

#### Plan: Plan #1 (WD M-32-8-16/OH)

Created By: Julie Seaman Date: 2006-06-19

#### FIELD DETAILS

Duchesne County, UT  
Geodetic System: US State Plane Coordinate System 1983  
Ellipsoid: GRS 1980  
Zone: Utah, Central Zone  
Magnetic Model: igr2005  
System Datum: Mean Sea Level  
Local North: True North

# Scientific Drilling International

## Planning Report

Company: Newfield Exploration Co. Date: 2006-06-19 Time: 16:36:08 Page: 1  
 Field: Duchesne County, UT Co-ordinate(NE) Reference: Well: WD M-32-8-16, True North  
 Site: Wells Draw M-32-8-16 Vertical (TVD) Reference: GL 5754' & RKB 12' 5766.0  
 Well: WD M-32-8-16 Section (VS) Reference: Well (0.00N,0.00E,315.80Azi)  
 Wellpath: OH Plan: Plan #1

Field: Duchesne County, UT

Map System: US State Plane Coordinate System 1983  
 Geo Datum: GRS 1980  
 Sys Datum: Mean Sea Level

Map Zone: Utah, Central Zone  
 Coordinate System: Well Centre  
 Geomagnetic Model: igr2005

Site: Wells Draw M-32-8-16  
 Sec. 32 T8S R16E

Site Position: Northing: 7198093.05 ft Latitude: 40 4 21.570 N  
 From: Geographic Easting: 2020697.66 ft Longitude: 110 8 27.740 W  
 Position Uncertainty: 0.00 ft North Reference: True  
 Ground Level: 5754.00 ft Grid Convergence: 0.87 deg

Well: WD M-32-8-16 Slot Name:  
 SHL: 1994' FSL, 2008' FEL  
 Well Position: +N/-S 0.00 ft Northing: 7198093.05 ft Latitude: 40 4 21.570 N  
 +E/-W 0.00 ft Easting: 2020697.66 ft Longitude: 110 8 27.740 W  
 Position Uncertainty: 0.00 ft

Wellpath: OH Drilled From: Surface  
 Current Datum: GL 5754' & RKB 12' Height 5766.00 ft Tie-on Depth: 0.00 ft  
 Magnetic Data: 2006-06-19 Above System Datum: Mean Sea Level  
 Field Strength: 52828 nT Declination: 11.98 deg  
 Vertical Section: Depth From (TVD) +N/-S +E/-W Mag Dip Angle: 65.93 deg  
 ft ft ft Direction deg  
 6486.00 0.00 0.00 315.80

Plan: Plan #1 Date Composed: 2006-06-19  
 Principal: Yes Version: 1  
 Tied-to: From Surface

### Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	315.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	315.80	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1215.49	9.23	315.80	1212.83	35.48	-34.49	1.50	1.50	0.00	315.80	
6557.87	9.23	315.80	6486.00	650.00	-632.00	0.00	0.00	0.00	0.00	BHL

### Section 1 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
0.00	0.00	315.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	315.80	100.00	0.00	0.00	0.00	0.00	0.00	0.00	315.80
200.00	0.00	315.80	200.00	0.00	0.00	0.00	0.00	0.00	0.00	315.80
300.00	0.00	315.80	300.00	0.00	0.00	0.00	0.00	0.00	0.00	315.80
400.00	0.00	315.80	400.00	0.00	0.00	0.00	0.00	0.00	0.00	315.80
500.00	0.00	315.80	500.00	0.00	0.00	0.00	0.00	0.00	0.00	315.80
600.00	0.00	315.80	600.00	0.00	0.00	0.00	0.00	0.00	0.00	315.80

### Section 2 : Start Build 1.50

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
700.00	1.50	315.80	699.99	0.94	-0.91	1.31	1.50	1.50	0.00	0.00
800.00	3.00	315.80	799.91	3.75	-3.65	5.23	1.50	1.50	0.00	0.00
900.00	4.50	315.80	899.69	8.44	-8.21	11.77	1.50	1.50	0.00	0.00
1000.00	6.00	315.80	999.27	15.00	-14.59	20.92	1.50	1.50	0.00	0.00
1100.00	7.50	315.80	1098.57	23.43	-22.78	32.68	1.50	1.50	0.00	0.00
1200.00	9.00	315.80	1197.54	33.72	-32.78	47.03	1.50	1.50	0.00	0.00
1215.49	9.23	315.80	1212.83	35.48	-34.49	49.48	1.50	1.50	0.00	0.00



**Date:** 2006-06-19      **Time:** 16:36:08      **Page:** 2  
**Co-ordinate(NE) Reference:** Well: WD M-32-8-16, True North  
**Vertical (TVD) Reference:** GL 5754' & RKB 12' 5766.0  
**Section (VS) Reference:** Well (0.00N,0.00E,315.80Azi)  
**Plan:** Plan #1

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Bulld deg/100ft	Turn deg/100ft	TFO deg
1300.00	9.23	315.80	1296.25	45.20	-43.95	63.04	0.00	0.00	0.00	0.00
1400.00	9.23	315.80	1394.95	56.70	-55.13	79.08	0.00	0.00	0.00	0.00
1500.00	9.23	315.80	1493.65	68.20	-66.31	95.13	0.00	0.00	0.00	0.00
1600.00	9.23	315.80	1592.36	79.71	-77.50	111.17	0.00	0.00	0.00	0.00
1700.00	9.23	315.80	1691.06	91.21	-88.68	127.21	0.00	0.00	0.00	0.00
1800.00	9.23	315.80	1789.77	102.71	-99.87	143.26	0.00	0.00	0.00	0.00
1900.00	9.23	315.80	1888.47	114.21	-111.05	159.30	0.00	0.00	0.00	0.00
2000.00	9.23	315.80	1987.18	125.72	-122.24	175.35	0.00	0.00	0.00	0.00
2100.00	9.23	315.80	2085.88	137.22	-133.42	191.39	0.00	0.00	0.00	0.00
2200.00	9.23	315.80	2184.59	148.72	-144.60	207.43	0.00	0.00	0.00	0.00
2300.00	9.23	315.80	2283.29	160.23	-155.79	223.48	0.00	0.00	0.00	0.00
2400.00	9.23	315.80	2382.00	171.73	-166.97	239.52	0.00	0.00	0.00	0.00
2500.00	9.23	315.80	2480.70	183.23	-178.16	255.57	0.00	0.00	0.00	0.00
2600.00	9.23	315.80	2579.40	194.73	-189.34	271.61	0.00	0.00	0.00	0.00
2672.53	9.23	315.80	2651.00	203.08	-197.45	283.25	0.00	0.00	0.00	0.00
2700.00	9.23	315.80	2678.11	206.24	-200.53	287.65	0.00	0.00	0.00	0.00
2800.00	9.23	315.80	2776.81	217.74	-211.71	303.70	0.00	0.00	0.00	0.00
2900.00	9.23	315.80	2875.52	229.24	-222.89	319.74	0.00	0.00	0.00	0.00
3000.00	9.23	315.80	2974.22	240.75	-234.08	335.78	0.00	0.00	0.00	0.00
3100.00	9.23	315.80	3072.93	252.25	-245.26	351.83	0.00	0.00	0.00	0.00
3200.00	9.23	315.80	3171.63	263.75	-256.45	367.87	0.00	0.00	0.00	0.00
3300.00	9.23	315.80	3270.34	275.25	-267.63	383.92	0.00	0.00	0.00	0.00
3400.00	9.23	315.80	3369.04	286.76	-278.82	399.96	0.00	0.00	0.00	0.00
3500.00	9.23	315.80	3467.75	298.26	-290.00	416.00	0.00	0.00	0.00	0.00
3600.00	9.23	315.80	3566.45	309.76	-301.18	432.05	0.00	0.00	0.00	0.00
3700.00	9.23	315.80	3665.16	321.26	-312.37	448.09	0.00	0.00	0.00	0.00
3800.00	9.23	315.80	3763.86	332.77	-323.55	464.13	0.00	0.00	0.00	0.00
3900.00	9.23	315.80	3862.56	344.27	-334.74	480.18	0.00	0.00	0.00	0.00
4000.00	9.23	315.80	3961.27	355.77	-345.92	496.22	0.00	0.00	0.00	0.00
4100.00	9.23	315.80	4059.97	367.28	-357.11	512.27	0.00	0.00	0.00	0.00
4200.00	9.23	315.80	4158.68	378.78	-368.29	528.31	0.00	0.00	0.00	0.00
4300.00	9.23	315.80	4257.38	390.28	-379.47	544.35	0.00	0.00	0.00	0.00
4400.00	9.23	315.80	4356.09	401.78	-390.66	560.40	0.00	0.00	0.00	0.00
4500.00	9.23	315.80	4454.79	413.29	-401.84	576.4				

[illegible]



# Scientific Drilling International

## Planning Report

**Company:** Newfield Exploration Co.  
**Field:** Duchesne County, UT  
**Site:** Wells Draw M-32-8-16  
**Well:** WD M-32-8-16  
**Wellpath:** OH

**Date:** 2006-06-19 **Time:** 16:36:08 **Page:** 3  
**Co-ordinate(NE) Reference:** Well: WD M-32-8-16, True North  
**Vertical (TVD) Reference:** GL 5754' & RKB 12' 5766.0  
**Section (VS) Reference:** Well (0.00N,0.00E,315.80Azi)  
**Plan:** Plan #1

### Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
300.00	0.00	315.80	300.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD
400.00	0.00	315.80	400.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD
500.00	0.00	315.80	500.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD
600.00	0.00	315.80	600.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD
700.00	1.50	315.80	699.99	0.94	-0.91	1.31	1.50	1.50	0.00	MWD
800.00	3.00	315.80	799.91	3.75	-3.65	5.23	1.50	1.50	0.00	MWD
900.00	4.50	315.80	899.69	8.44	-8.21	11.77	1.50	1.50	0.00	MWD
1000.00	6.00	315.80	999.27	15.00	-14.59	20.92	1.50	1.50	0.00	MWD
1100.00	7.50	315.80	1098.57	23.43	-22.78	32.68	1.50	1.50	0.00	MWD
1200.00	9.00	315.80	1197.54	33.72	-32.78	47.03	1.50	1.50	0.00	MWD
1215.49	9.23	315.80	1212.83	35.48	-34.49	49.48	1.50	1.50	0.00	MWD
1300.00	9.23	315.80	1296.25	45.20	-43.95	63.04	0.00	0.00	0.00	MWD
1400.00	9.23	315.80	1394.95	56.70	-55.13	79.08	0.00	0.00	0.00	MWD
1500.00	9.23	315.80	1493.65	68.20	-66.31	95.13	0.00	0.00	0.00	MWD
1600.00	9.23	315.80	1592.36	79.71	-77.50	111.17	0.00	0.00	0.00	MWD
1700.00	9.23	315.80	1691.06	91.21	-88.68	127.21	0.00	0.00	0.00	MWD
1800.00	9.23	315.80	1789.77	102.71	-99.87	143.26	0.00	0.00	0.00	MWD
1900.00	9.23	315.80	1888.47	114.21	-111.05	159.30	0.00	0.00	0.00	MWD
2000.00	9.23	315.80	1987.18	125.72	-122.24	175.35	0.00	0.00	0.00	MWD
2100.00	9.23	315.80	2085.88	137.22	-133.42	191.39	0.00	0.00	0.00	MWD
2200.00	9.23	315.80	2184.59	148.72	-144.60	207.43	0.00	0.00	0.00	MWD
2300.00	9.23	315.80	2283.29	160.23	-155.79	223.48	0.00	0.00	0.00	MWD
2400.00	9.23	315.80	2382.00	171.73	-166.97	239.52	0.00	0.00	0.00	MWD
2500.00	9.23	315.80	2480.70	183.23	-178.16	255.57	0.00	0.00	0.00	MWD
2600.00	9.23	315.80	2579.40	194.73	-189.34	271.61	0.00	0.00	0.00	MWD
2672.53	9.23	315.80	2651.00	203.08	-197.45	283.25	0.00	0.00	0.00	Green River
2700.00	9.23	315.80	2678.11	206.24	-200.53	287.65	0.00	0.00	0.00	MWD
2800.00	9.23	315.80	2776.81	217.74	-211.71	303.70	0.00	0.00	0.00	MWD
2900.00	9.23	315.80	2875.52	229.24	-222.89	319.74	0.00	0.00	0.00	MWD
3000.00	9.23	315.80	2974.22	240.75	-234.08	335.78	0.00	0.00	0.00	MWD
3100.00	9.23	315.80	3072.93	252.25	-245.26	351.83	0.00	0.00	0.00	MWD
3200.00	9.23	315.80	3171.63	263.75	-256.45	367.87	0.00	0.00	0.00	MWD
3300.00	9.23	315.80	3270.34	275.25	-267.63	383.92	0.00	0.00	0.00	MWD
3400.00	9.23	315.80	3369.04	286.76	-278.82	399.96	0.00	0.00	0.00	MWD
3500.00	9.23	315.80	3467.75	298.26	-290.00	416.00	0.00	0.00	0.00	MWD
3600.00	9.23	315.80	3566.45	309.76	-301.18	432.05	0.00	0.00	0.00	MWD
3700.00	9.23	315.80	3665.16	321.26	-312.37	448.09	0.00	0.00	0.00	MWD
3800.00	9.23	315.80	3763.86	332.77	-323.55	464.13	0.00	0.00	0.00	MWD
3900.00	9.23	315.80	3862.56	344.27	-334.74	480.18	0.00	0.00	0.00	MWD
4000.00	9.23	315.80	3961.27	355.77	-345.92	496.22	0.00	0.00	0.00	MWD
4100.00	9.23	315.80	4059.97	367.28	-357.11	512.27	0.00	0.00	0.00	MWD
4200.00	9.23	315.80	4158.68	378.78	-368.29	528.31	0.00	0.00	0.00	MWD
4300.00	9.23	315.80	4257.38	390.28	-379.47	544.35	0.00	0.00	0.00	MWD
4400.00	9.23	315.80	4356.09	401.78	-390.66	560.40	0.00	0.00	0.00	MWD
4500.00	9.23	315.80	4454.79	413.29	-401.84	576.44	0.00	0.00	0.00	MWD
4600.00	9.23	315.80	4553.50	424.79	-413.03	592.48	0.00	0.00	0.00	MWD
4700.00	9.23	315.80	4652.20	436.29	-424.21	608.53	0.00	0.00	0.00	MWD
4800.00	9.23	315.80	4750.91	447.80	-435.40	624.57	0.00	0.00	0.00	MWD
4900.00	9.23	315.80	4849.61	459.30	-446.58	640.62	0.00	0.00	0.00	MWD
5000.00	9.23	315.80	4948.32	470.80	-457.76	656.66	0.00	0.00	0.00	MWD
5100.00	9.23	315.80	5047.02	482.30	-468.95	672.70	0.00	0.00	0.00	MWD
5200.00	9.23	315.80	5145.72	493.81	-480.13	688.75	0.00	0.00	0.00	MWD
5300.00	9.23	315.80	5244.43	505.31	-491.32	704.79	0.00	0.00	0.00	MWD

# Scientific Drilling International

## Planning Report

Company: Newfield Exploration Co.  
Field: Duchesne County, UT  
Site: Wells Draw M-32-8-16  
Well: WD M-32-8-16  
Wellpath: OH

Date: 2006-06-19 Time: 16:36:08 Page: 4  
Co-ordinate(NE) Reference: Well: WD M-32-8-16, True North  
Vertical (TVD) Reference: GL 5754' & RKB 12' 5766.0  
Section (VS) Reference: Well (0.00N,0.00E,315.80Azi)  
Plan: Plan #1

### Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
5400.00	9.23	315.80	5343.13	516.81	-502.50	720.83	0.00	0.00	0.00	MWD
5500.00	9.23	315.80	5441.84	528.32	-513.69	736.88	0.00	0.00	0.00	MWD
5600.00	9.23	315.80	5540.54	539.82	-524.87	752.92	0.00	0.00	0.00	MWD
5700.00	9.23	315.80	5639.25	551.32	-536.05	768.97	0.00	0.00	0.00	MWD
5800.00	9.23	315.80	5737.95	562.82	-547.24	785.01	0.00	0.00	0.00	MWD
5900.00	9.23	315.80	5836.66	574.33	-558.42	801.05	0.00	0.00	0.00	MWD
6000.00	9.23	315.80	5935.36	585.83	-569.61	817.10	0.00	0.00	0.00	MWD
6100.00	9.23	315.80	6034.07	597.33	-580.79	833.14	0.00	0.00	0.00	MWD
6200.00	9.23	315.80	6132.77	608.84	-591.98	849.19	0.00	0.00	0.00	MWD
6300.00	9.23	315.80	6231.47	620.34	-603.16	865.23	0.00	0.00	0.00	MWD
6400.00	9.23	315.80	6330.18	631.84	-614.34	881.27	0.00	0.00	0.00	MWD
6471.75	9.23	315.80	6401.00	640.09	-622.37	892.78	0.00	0.00	0.00	Wasatch
6500.00	9.23	315.80	6428.88	643.34	-625.53	897.32	0.00	0.00	0.00	MWD
6557.87	9.23	315.80	6486.00	650.00	-632.00	906.60	0.00	0.00	0.00	BHL

### Targets

Name	Description Dip. Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude → Deg Min Sec			← Longitude → Deg Min Sec		
BHL		6486.00	650.00	-632.00	7198733.38	2020055.85	40	4	27.994 N	110	8	35.871 W
-Plan hit target												

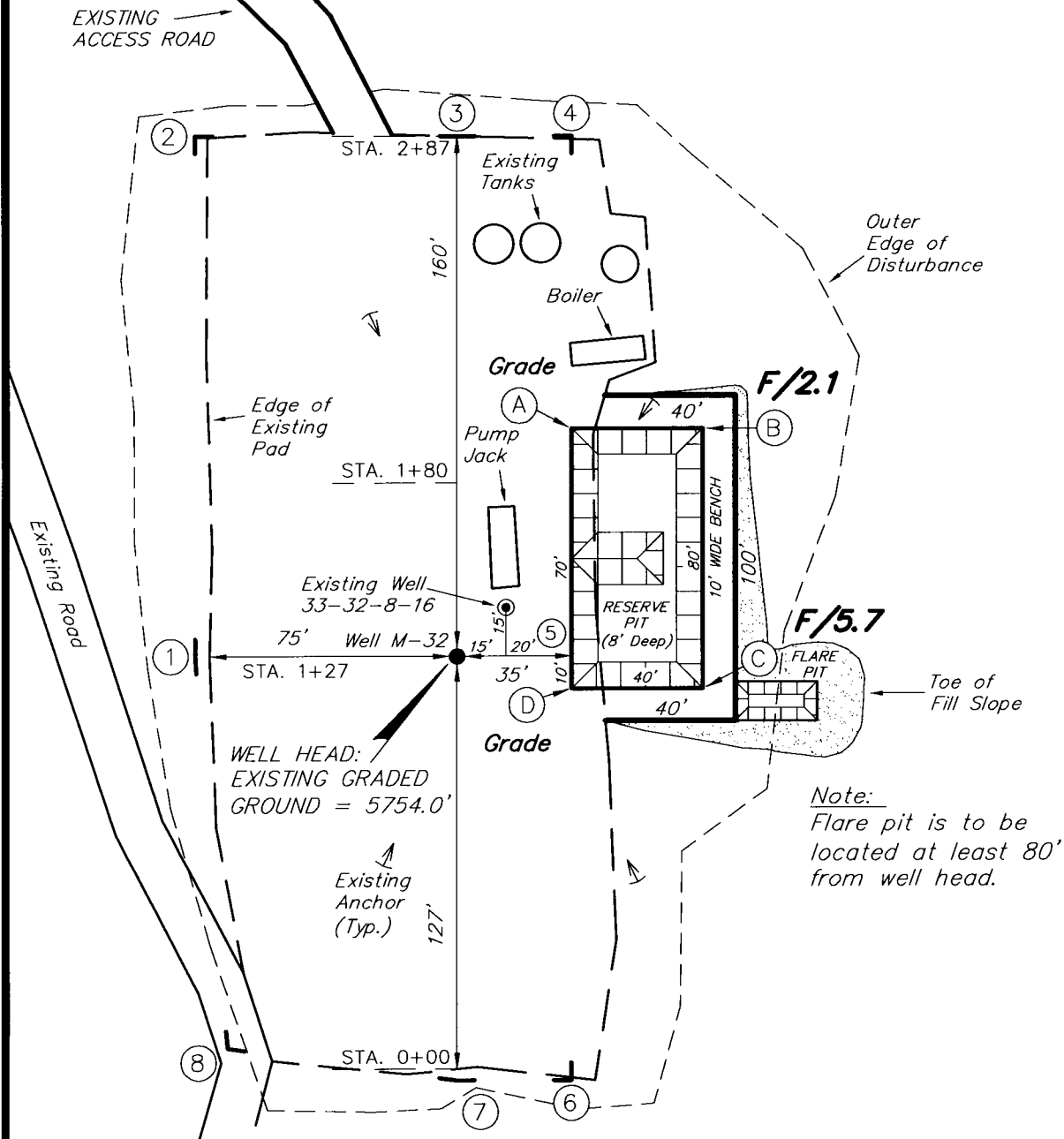
### Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
2672.53	2651.00	Green River		0.00	0.00
6471.75	6401.00	Wasatch		0.00	0.00

# NEWFIELD PRODUCTION COMPANY

WELLS DRAW 33-32-8-16 (M-32)

Section 32, T8S, R16E, S.L.B.&M.



SURVEYED BY: C.M.

SCALE: 1" = 50'

DRAWN BY: F.T.M.

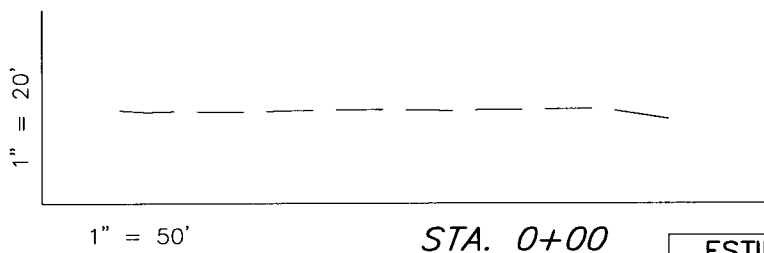
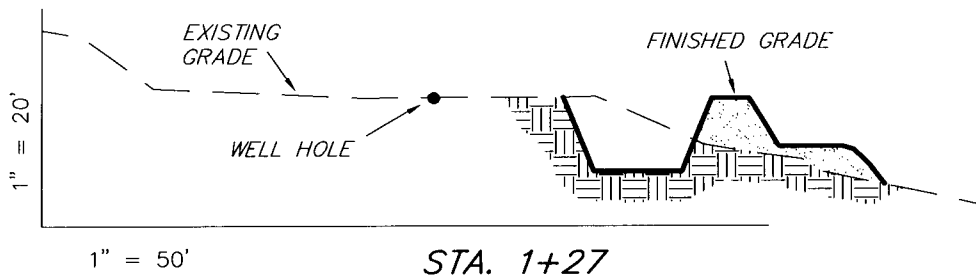
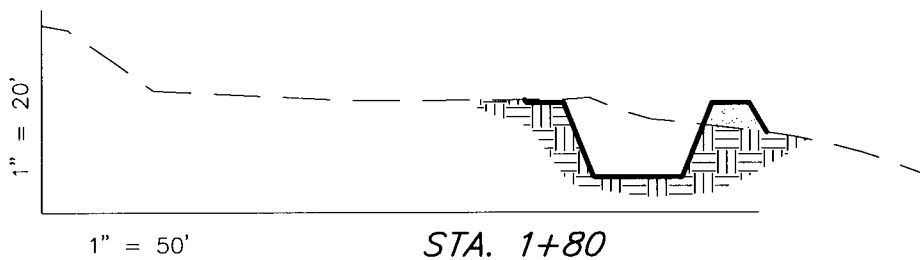
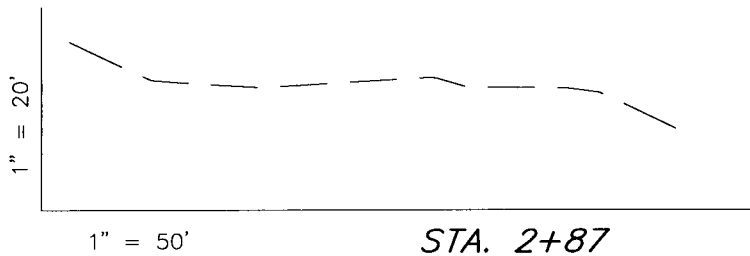
DATE: 05-24-06

**Tri State**  
Land Surveying, Inc.

(435) 781-2501

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

**NEWFIELD PRODUCTION COMPANY**  
**CROSS SECTIONS**  
**WELLS DRAW 33-32-8-16 (M-32)**



NOTE:  
 UNLESS OTHERWISE NOTED  
 ALL CUT/FILL SLOPES ARE  
 AT 1.5:1

ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	-140	460	Topsoil is not included in Pad Cut	-600
PIT	640	0		640
TOTALS	500	460	890	40

SURVEYED BY: C.M.

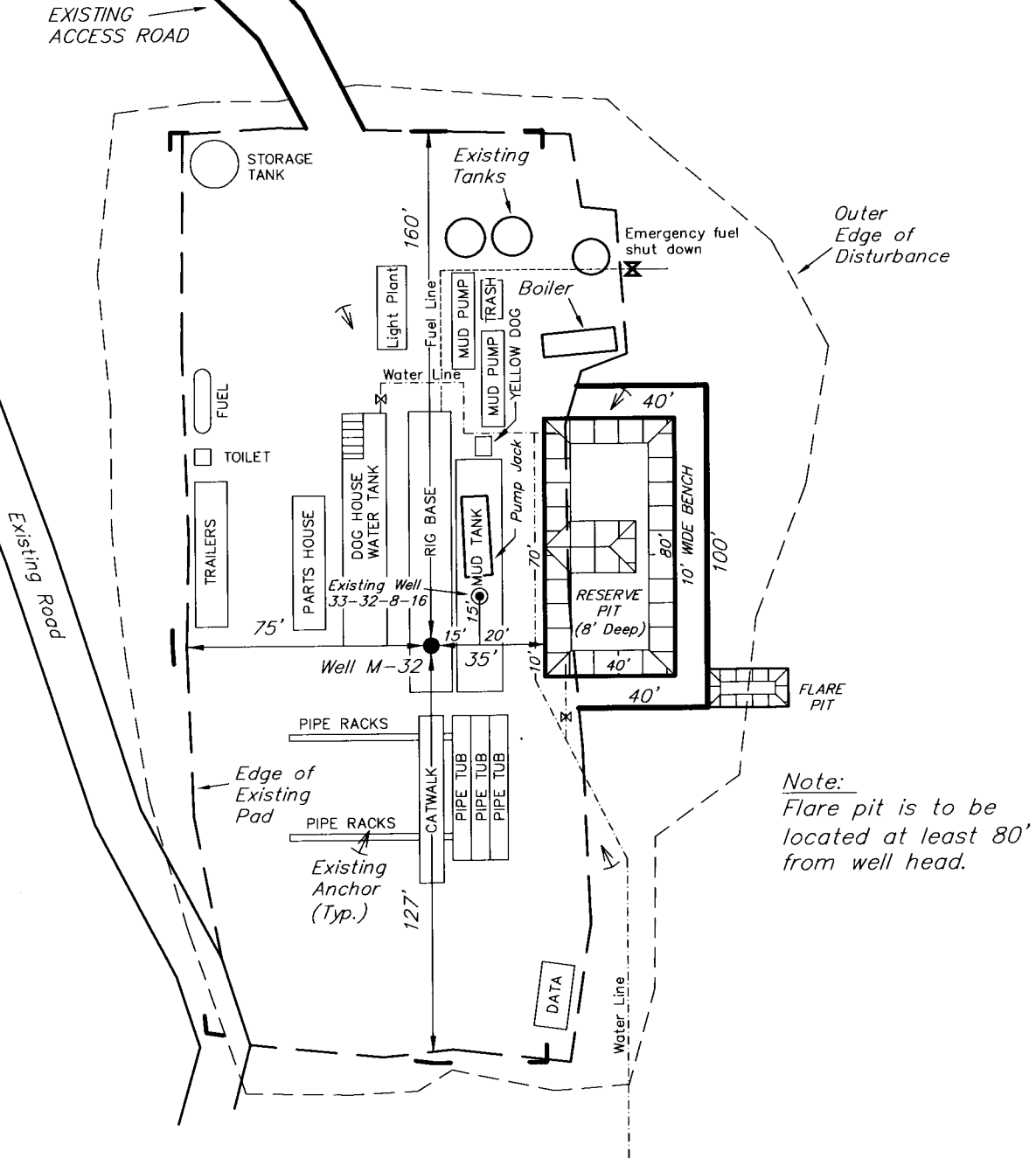
SCALE: 1" = 50'

DRAWN BY: F.T.M.

DATE: 05-24-06

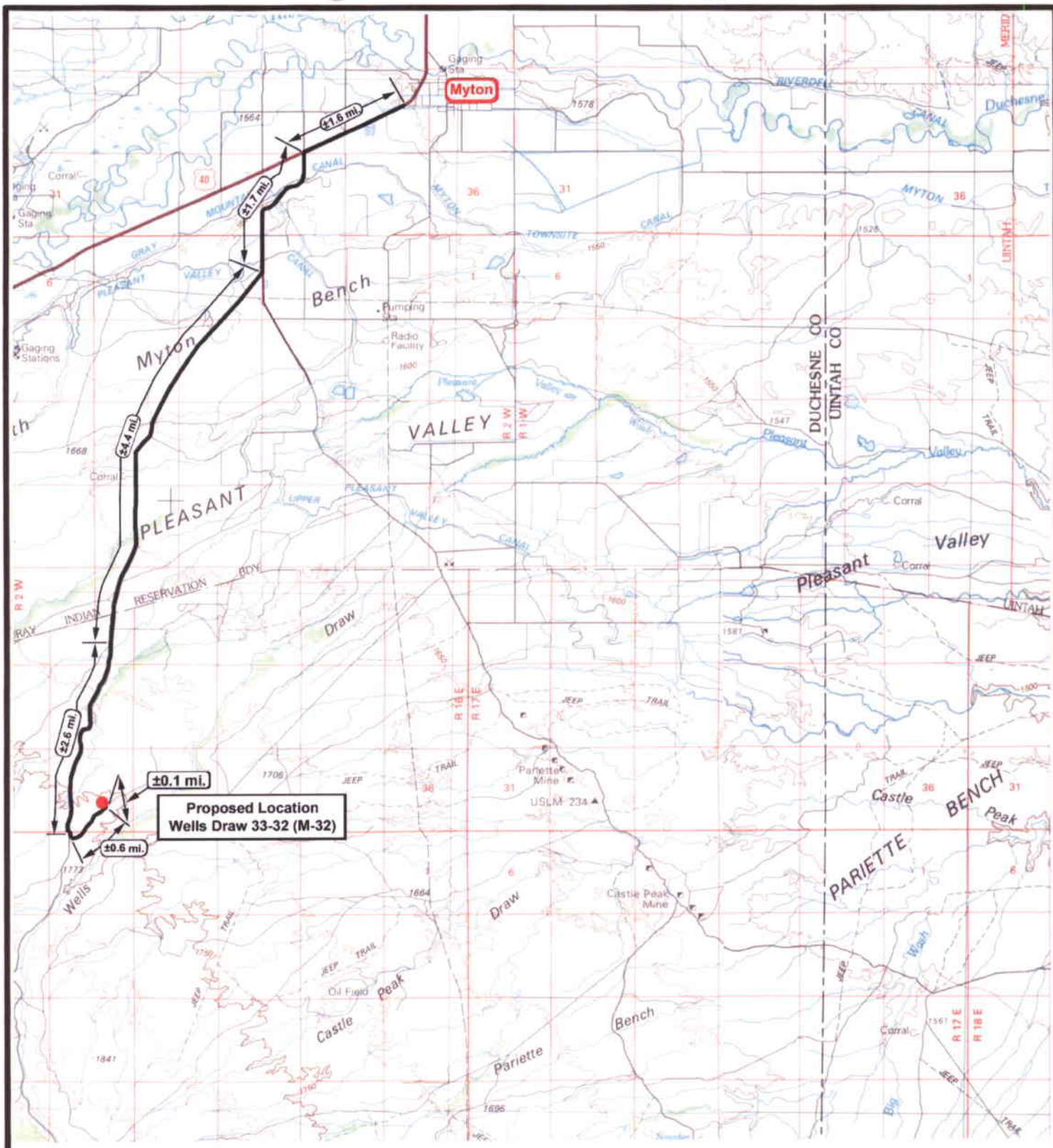
**Tri State**  
 Land Surveying, Inc.  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078  
 (435) 781-2501

NEWFIELD PRODUCTION COMPANY  
TYPICAL RIG LAYOUT  
WELLS DRAW 33-32-8-16 (M-32)



SURVEYED BY: C.M.	SCALE: 1" = 50'
DRAWN BY: F.T.M.	DATE: 05-24-06

**Tri State** (435) 781-2501  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078



**NEWFIELD**  
Exploration Company

**Wells Draw 33-32-8-16 (M-32)**  
**SEC. 32, T8S, R16E, S.L.B.&M.**



**Tri-State**  
Land Surveying Inc.  
(435) 781-2501

180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1 : 100,000

DRAWN BY: mw

DATE: 05-25-2006

**Legend**

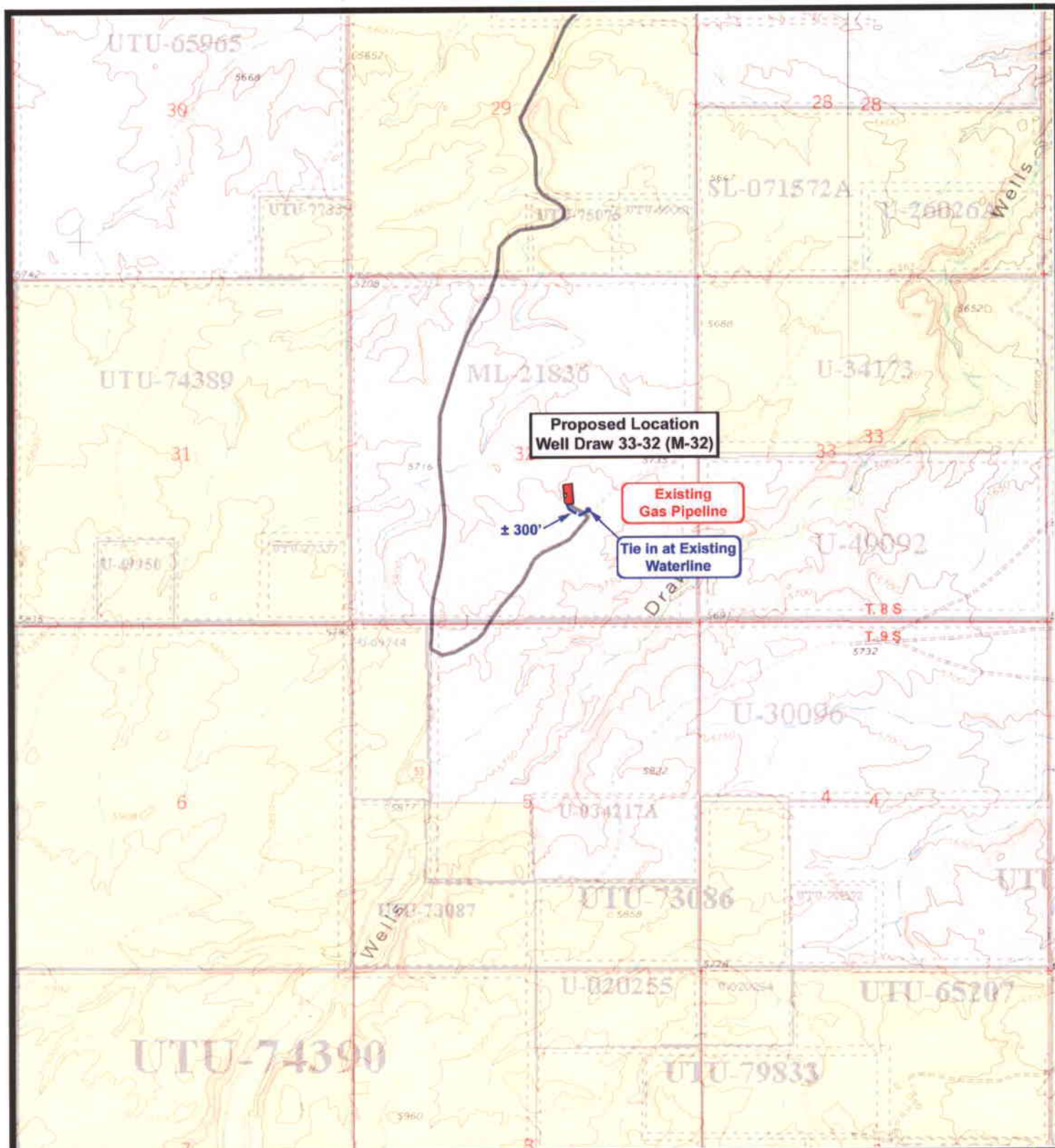
Existing Road

TOPOGRAPHIC MAP

**"A"**







**NEWFIELD**  
Exploration Company

**Wells Draw 33-32-8-16 (M-32)**  
**SEC. 32, T8S, R16E, S.L.B.&M.**



**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

**SCALE: 1" = 2,000'**

**DRAWN BY: mw**

**DATE: 05-25-2006**

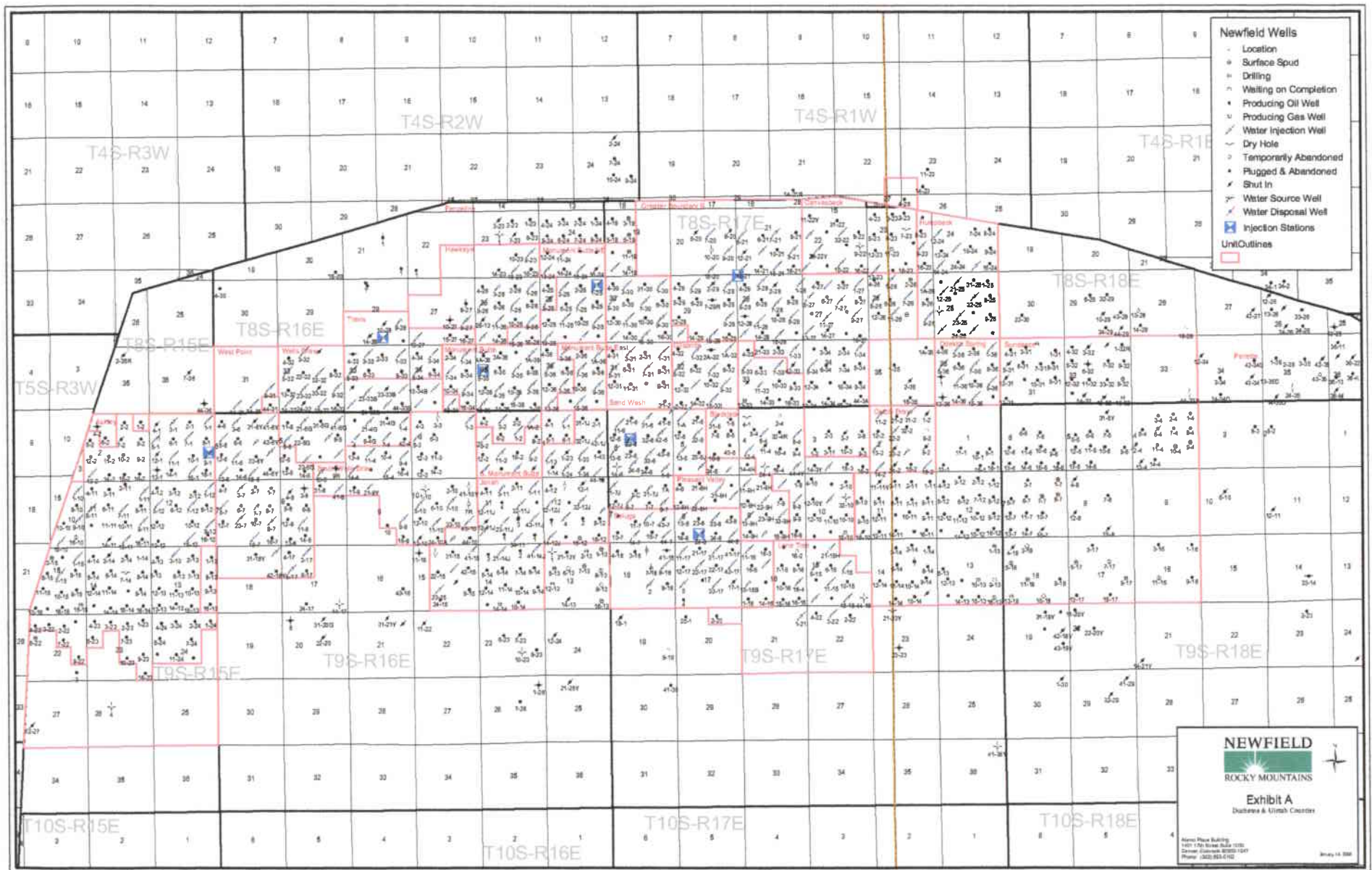
**Legend**

- Roads
- Proposed Water Line

**TOPOGRAPHIC MAP**

**"C"**







## 2-M SYSTEM

Blowout Prevention Equipment Systems

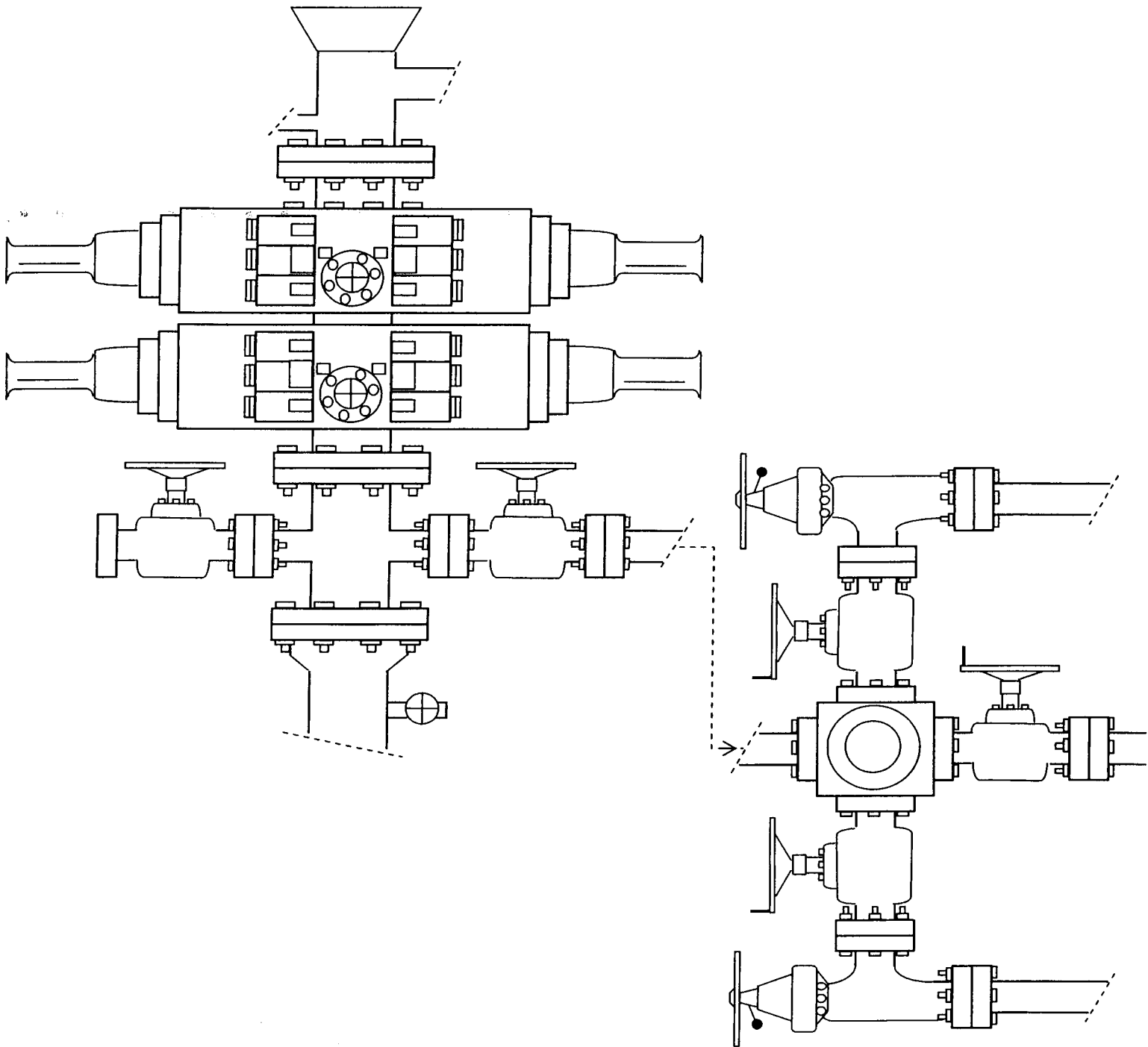


EXHIBIT C

**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 06/23/2006

API NO. ASSIGNED: 43-013-33222

WELL NAME: WELLS DRAW ST M-32-8-16

OPERATOR: NEWFIELD PRODUCTION ( N2695 )

CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

**PROPOSED LOCATION:**

NWSE 32 080S 160E

SURFACE: 1994 FSL 2008 FEL

BOTTOM: 2644 FSL 2640 FEL

COUNTY: DUCHESNE

LATITUDE: 40.07268 LONGITUDE: -110.1403

UTM SURF EASTINGS: 573305 NORTHINGS: 4435968

FIELD NAME: MONUMENT BUTTE ( 105 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	DKD	7/28/06
Geology		
Surface		

LEASE TYPE: 3 - State

LEASE NUMBER: ML-21836

SURFACE OWNER: 3 - State

PROPOSED FORMATION: GRRV

COALBED METHANE WELL? NO

**RECEIVED AND/OR REVIEWED:**

☒ Plat

☒ Bond: Fed[] Ind[] Sta[] Fee[]  
(No. B001834 )

☒ Potash (Y/N)

☒ Oil Shale 190-5 (B) or 190-3 or 190-13

☒ Water Permit

(No. MUNICIPAL )

☒ RDCC Review (Y/N)

(Date: )

☒ Fee Surf Agreement (Y/N)

☒ Intent to Commingle (Y/N)

**LOCATION AND SITING:**

☐ R649-2-3.

Unit: WELLS DRAW (GREEN RIVER)

☐ R649-3-2. General

Siting: 460 From Qtr/Qtr & 920' Between Wells

☐ R649-3-3. Exception

☒ Drilling Unit

Board Cause No: 231-3

Eff Date: 3-24-1999

Siting: Suspends General Siting

☒ R649-3-11. Directional Drill

COMMENTS:

Needs Permit (07-13-06)

STIPULATIONS:

1- STATEMENT OF BASIS



FEDERAL  
B-29-8-16

T8S R16E

WELLS DRAW  
3-32-8-16 △

WELLS DRAW  
2-32-8-16 •

WELLS DRAW  
4-32-8-16 •

**MONUMENT BUTTE FIELD**  
**WELLS DRAW (GR) UNIT**  
CAUSE: 231-3 / 3-24-1999

WELLS DRAW  
5-32-8-16 △

GAVILAN ST  
22-32 •

STATE 32-32  
△

WELLS DRAW  
8-32-8-16 •

BHL  
M-32-8-16  
32

STATE 23-32  
△

WELLS DRAW ST  
M-32-8-16  
STATE 33-32

WELLS DRAW  
9-32-8-16 △

STATE 13-32  
•

STATE 14-32  
△

STATE 24-32  
•

WELLS DRAW  
15-32-8-16 △

WELLS DRAW  
16-32-8-16 •

T9S R16E

OPERATOR: NEWFIELD PROD CO (N2695)

SEC: 32 T. 8S R. 16E

FIELD: MONUMENT BUTTE (105)

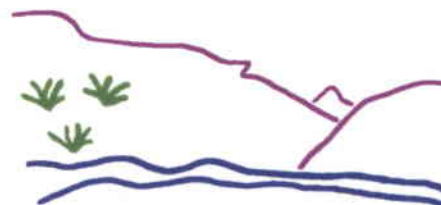
COUNTY: DUCHESNE

CAUSE: 231-3 / 3-24-1999

**Field Status**  
ABANDONED  
ACTIVE  
COMBINED  
INACTIVE  
PROPOSED  
STORAGE  
TERMINATED

**Unit Status**  
EXPLORATORY  
GAS STORAGE  
NF PP OIL  
NF SECONDARY  
PENDING  
PI OIL  
PP GAS  
PP GEOTHERML  
PP OIL  
SECONDARY  
TERMINATED

**Wells Status**  
GAS INJECTION  
GAS STORAGE  
LOCATION ABANDONED  
NEW LOCATION  
PLUGGED & ABANDONED  
PRODUCING GAS  
PRODUCING OIL  
SHUT-IN GAS  
SHUT-IN OIL  
TEMP. ABANDONED  
TEST WELL  
WATER INJECTION  
WATER SUPPLY  
WATER DISPOSAL  
DRILLING



*Utah Oil Gas and Mining*



PREPARED BY: DIANA WHITNEY  
DATE: 14-JULY-2006

**DIVISION OF OIL, GAS AND MINING**  
**APPLICATION FOR PERMIT TO DRILL**  
**STATEMENT OF BASIS**

**OPERATOR:** New Field Production Company  
**WELL NAME & NUMBER:** Wells Draw State #M-32-8-16  
**API NUMBER:** 43-013-33222  
**LOCATION:** 1/4,1/4 NW/SE Sec: 32 TWP: 08 RNG: 16E 1994 FSL 2008 FEL

**Geology/Ground Water:**

Newfield proposes to set 290' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 750'. A search of Division of Water Rights records shows one water well within a 10,000 foot radius of the proposed location. No depth is listed for this well. It is owned by Newfield and used for a water supply well for the enhanced recovery project. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed casing and cement program should adequately protect any useable ground water and nearby wells.

**Reviewer:** Brad Hill **Date:** 01/18/06

**Surface:**

Richard Powell did schedule this presite with Newfield and was therefore the person who contacted SITLA and UDWR regarding the meeting date and time. SITLA did not attend, as this well is staked on an existing location with the new disturbance located in previously disturbed lands. Newfield plans to re-open the same reserve pit area that was utilized to drill the 33-32-8-16 well. The operator has requested they be allowed to drill without a pit liner under the Methods of Handling Waste Disposal Plan. As stated, if insufficient fine clay or silt is not present, or if water is encountered during the surface hole drilling they should line the pit. Furthermore, the west side of the pit does have a portion of the berm in fill. The operator shall take any preventative actions to prevent any leaks from this pits and assure stability. This is a directional well with the bottom hole location set for SE, 2644' FSL; 2640' FEL on twenty acre spacing. There were no other issues noted during the presite meeting.

**Reviewer:** Dennis L Ingram **Date:** July 13, 2006

**Conditions of Approval/Application for Permit to Drill:**

None.

**ON-SITE PREDRILL EVALUATION**  
**Division of Oil, Gas and Mining**

**OPERATOR:** Newfield Production Company  
**WELL NAME & NUMBER:** Wells Draw State #M-32-8-16  
**API NUMBER:** 43-013-33222  
**LEASE:** ML-21836 STATE **FIELD/UNIT:** MONUMENT BUTTE  
**LOCATION:** 1/4,1/4 NW/SE **Sec:** 32 **TWP:** 08S **RNG:** 16E 1994 **FSL** 2640 **FEL**  
**LEGAL WELL SITING:** General siting suspended.  
**GPS COORD (UTM):** X =0573308 E; Y =4435969 N **SURFACE OWNER:** SITLA

**PARTICIPANTS**

Dennis L. Ingram (DOGM) Ben Williams (UDWR) Shon Mckinnon (Newfield)

**REGIONAL/LOCAL SETTING & TOPOGRAPHY**

Location access is the Wells Draw Road 1.6 miles southwest of Myton, Utah off US Highway 40, then 1.7 miles south on Highway 53, then south down the Wells Draw Road for another 7.0 miles and turn northeast on the bench just north of Wells Draw. Wells Draw is located 0.3 miles to the south, and drains this region in a northeasterly fashion toward Pleasant Valley Wash. The surface area is a broad bench that continues to dip north into a basin or tabletop region.

**SURFACE USE PLAN**

**CURRENT SURFACE USE:** Drilled from existing well pad 33-32-8-16

**PROPOSED SURFACE DISTURBANCE:** \_\_\_\_\_

**LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS:** There are 35 oil or injector wells within a one mile radius

**LOCATION OF PRODUCTION FACILITIES AND PIPELINES:** Existing site, add pump jack and short flowline but utilize same treater and tanks

**SOURCE OF CONSTRUCTION MATERIAL:** Native cut and fill

**ANCILLARY FACILITIES:** None requested

**WILL DRILLING AT THIS LOCATION GENERATE PUBLIC INTEREST OR CONCERNS? (EXPLAIN):** NO

**WASTE MANAGEMENT PLAN:**

Submitted to the Division on the Ten & Thirteen Point well Program with the Application to Drill

**ENVIRONMENTAL PARAMETERS**

**AFFECTED FLOODPLAINS AND/OR WETLANDS:** None

**FLORA/FAUNA:** Lowland desert, shad scale vegetation community; Critical

antelope habitat, smaller mammals such as coyote, rabbit and birds of prey native to region.

SOIL TYPE AND CHARACTERISTICS: Tan fine grained sand with some clay present

SURFACE FORMATION & CHARACTERISTICS: Uinta Formation

EROSION/SEDIMENTATION/STABILITY: existing location, little or no new erosion problems or sedimentation, no stability problems.

PALEONTOLOGICAL POTENTIAL: None observe, little to no new disturbance.

#### **RESERVE PIT**

CHARACTERISTICS: Proposed on the west side of location and dug from same old reserve pit measuring 90'x 40'x 8' deep

LINER REQUIREMENTS (Site Ranking Form attached): 15 points, construct in old pit, no blasting, doubtful any ground water, liner is optional

#### **SURFACE RESTORATION/RECLAMATION PLAN**

Reshape, contour and seed surface unless otherwise authorized by SITLA

SURFACE AGREEMENT: Yes

CULTURAL RESOURCES/ARCHAEOLOGY: Previously done, no new disturbance

#### **OTHER OBSERVATIONS/COMMENTS**

Existing location, same access road, new disturbance in reclamation area only, Wells Draw located 0.3 miles southeast of location, no surface water in the area, may have ground water along Wells Draw.

#### **ATTACHMENTS**

Photos of this location were taken and placed on file.

Dennis L. Ingram  
DOGM REPRESENTATIVE

July 13, 2006 09:00 AM  
DATE/TIME



**Valuation Ranking Criteria and Ranking Score  
For Reserve and Onsite Pit Liner Requirements**

<u>Site-Specific Factors</u>	<u>Ranking</u>	<u>Site Ranking</u>
Distance to Groundwater (feet)		
>200	0	
100 to 200	5	
75 to 100	10	
25 to 75	15	
<25 or recharge area	20	<u>0</u>
Distance to Surf. Water (feet)		
>1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200	15	
< 100	20	<u>0</u>
Distance to Nearest Municipal Well (feet)		
>5280	0	
1320 to 5280	5	
500 to 1320	10	
<500	20	<u>0</u>
Distance to Other Wells (feet)		
>1320	0	
300 to 1320	10	
<300	20	<u>0</u>
Native Soil Type		
Low permeability	0	
Mod. permeability	10	
High permeability	20	<u>10</u>
Fluid Type		
Air/mist	0	
Fresh Water	5	
TDS >5000 and <10000	10	
TDS >10000 or Oil Base Mud Fluid	15	
containing significant levels of hazardous constituents	20	<u>5</u>
Drill Cuttings		
Normal Rock	0	
Salt or detrimental	10	<u>0</u>
Annual Precipitation (inches)		
<10	0	
10 to 20	5	
>20	10	<u>0</u>
Affected Populations		
<10	0	
10 to 30	6	
30 to 50	8	
>50	10	<u>0</u>
Presence of Nearby Utility Conduits		
Not Present	0	
Unknown	10	
Present	15	<u>0</u>

**Final Score**      15      (Level II Sensitivity)

Sensitivity Level I = 20 or more; total containment is required, consider criteria for excluding pit use.

Sensitivity Level II = 15-19; lining is discretionary.

Sensitivity Level III = below 15; no specific lining is required.

# 7-06 Newfield Wells Draw S. M-32-8-16

## Casing Schematic

Clenta

Surface

8-5/8"  
MW 8.4  
Frac 19.3

TOC @  
0.  
Surface  
290. MD  
290. TVD

✓ w/ 12% washout

750 Brisa

1700 Green River

3715  
Toe Tail

✓ w/ 11% washout

5-1/2"  
MW 8.6

Production  
6557. MD  
6485. TVD

BHP

$$(.052)(8.6)(6485) = 2900$$

Anticipate 2,000

Gas

$$(.10)(6485) = 778$$

$$MASP = 2122$$

Fluid

$$(.20)(6485) = 1426$$

$$MASP = 1474$$

BOPE - 2M

Surf csg - 2950, 70% = 2065

Mat pressure Surf csg shoe = 1538

Test to 1538# ✓

✓ Adequate DLD 7/28/06

Well name:	<b>07-06 Newfield Wells Draw St M-32-8-16</b>	
Operator:	<b>Newfield Production Company</b>	Project ID:
String type:	<b>Surface</b>	<b>43-013-33222</b>
Location:	<b>Duchesne County</b>	

**Design parameters:**

**Collapse**

Mud weight: 8.400 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 79 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 290 ft

Cement top: Surface

**Burst**

Max anticipated surface pressure: 255 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 290 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on buoyed weight.  
Neutral point: 253 ft

Non-directional string.

**Re subsequent strings:**

Next setting depth: 6,485 ft  
Next mud weight: 8.600 ppg  
Next setting BHP: 2,897 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 290 ft  
Injection pressure 290 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	290	8.625	24.00	J-55	ST&C	290	290	7.972	14
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	127	1370	10.826	290	2950	10.17	6	244	40.12 J

Prepared by: Clinton Dworshak  
Utah Div. of Oil & Mining

Phone: 801-538-5280  
FAX: 801-359-3940

Date: July 26, 2006  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 290 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

Well name:	<b>07-06 Newfield Wells Draw St M-32-8-16</b>	
Operator:	<b>Newfield Production Company</b>	Project ID:
String type:	<b>Production</b>	<b>43-013-33222</b>
Location:	<b>Duchesne County</b>	

**Design parameters:**

**Collapse**

Mud weight: 8.600 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 166 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,500 ft

Cement top: Surface

**Burst**

Max anticipated surface pressure: 651 psi  
Internal gradient: 0.346 psi/ft  
Calculated BHP 2,897 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

**Directional well information:**

Kick-off point 0 ft  
Departure at shoe: 906 ft  
Maximum dogleg: 1.5 °/100ft  
Inclination at shoe: 9.23 °

Tension is based on buoyed weight.

Neutral point: 5,702 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	6557	5.5	15.50	J-55	LT&C	6485	6557	4.825	205.5
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	2897	4040	1.394	2897	4810	1.66	87	217	2.48 J

Prepared by: Clinton Dworshak  
Utah Div. of Oil & Mining

Phone: 801-538-5280  
FAX: 801-359-3940

Date: July 26, 2006  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 6485 ft, a mud weight of 8.6 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

*Engineering responsibility for use of this design will be that of the purchaser.*



**State of Utah**

**Department of  
Natural Resources**

MICHAEL R. STYLER  
*Executive Director*

**Division of  
Oil, Gas & Mining**

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

July 31, 2006

Newfield Production Company  
Route 3 Box 3630  
Myton, UT 84052

Re: Wells Draw State M-32-8-16 Well, 1994' FSL, 2008' FEL, NW SE, Sec. 32,  
T. 8 South, R. 16 East, Bottom Location 2644' FSL, 2640' FEL, NW SE,  
Sec. 32, T. 8 South, R. 16 East, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-33222.

Sincerely,

A handwritten signature in black ink, appearing to read "Gil Hunt".

Gil Hunt  
Associate Director

mf  
Enclosures

cc: Duchesne County Assessor  
SITLA

**Operator:** Newfield Production Company  
**Well Name & Number** Wells Draw State M-32-8-16  
**API Number:** 43-013-33222  
**Lease:** ML-21836

**Location:** NW SE **Sec.** 32 **T.** 8 South **R.** 16 East  
**Bottom Location:** NW SE **Sec.** 32 **T.** 8 South **R.** 16 East

### Conditions of Approval

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### 2. Notification Requirements

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- 24 hours prior to cementing or testing casing
- 24 hours prior to testing blowout prevention equipment
- 24 hours prior to spudding the well
- within 24 hours of any emergency changes made to the approved drilling program
- prior to commencing operations to plug and abandon the well

The following are Division of Oil, Gas and Mining contacts and their work telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at (801) 538-5338
- Carol Daniels at (801) 538-5284 (spud)

#### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

#### 4. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

#### 5. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.

#### 6. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

## APPLICATION FOR PERMIT TO DRILL, DEEPEN

1a. TYPE OF WORK DRILL <input type="checkbox"/> DEEPEN <input checked="" type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. <b>ML-21836</b>
1b. TYPE OF WELL OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME <b>N/A</b>
2. NAME OF OPERATOR <b>Newfield Production Company</b>		7. UNIT AGREEMENT NAME <b>Wells Draw</b>
3. ADDRESS AND TELEPHONE NUMBER: <b>Route #3 Box 3630, Myton, UT 84052 Phone: (435) 646-3721</b>		8. FARM OR LEASE NAME <b>N/A</b>
4. LOCATION OF WELL (FOOTAGE) At Surface <b>NW/SE 1994' FSL 2008' FEL</b> At proposed Producing Zone <b>SE 2644' FSL 2640' FEL</b> <b>573305X 4435968Y 40.672677 -110.24030</b> <b>573110X 4436164Y 40.074467 -110.142602</b>		9. WELL NO. <b>Wells Draw State #M-32-8-16</b>
11. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* <b>Approximately 11.0 miles southwest of Myton, UT</b>		10. FIELD AND POOL OR WILDCAT <b>Monument Butte</b>
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) <b>Approx. 2640' f/lse line and 2636' f/unit line</b>	16. NO. OF ACRES IN LEASE <b>640.00</b>	11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN <b>NW/SE Sec. 32, T8S, R16E</b>
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT. <b>Approximately 1287' (Down Hole)</b>	19. PROPOSED DEPTH <b>6500'</b>	12. County <b>Duchesne</b>
21. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>5754' GL</b>		13. STATE <b>UT</b>
22. APPROX. DATE WORK WILL START* <b>4th Quarter 2006</b>		

## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	24#	290'	155 sx +/- 10%
7 7/8	5 1/2	15.5#	TD	275 sx lead followed by 450 sx tail
				See Detail Below

DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give date on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

\*The actual cement volumes will be calculated off of the open hole logs, plus 15% excess:

**SURFACE PIPE** - 155 sx Class G Cement +/- 10%, w/ 2% CaCl<sub>2</sub> & 1/4#/sk Cello-flake  
Weight: 15.8 PPG YIELD: 1.17 Cu Ft/sk H<sub>2</sub>O Req: 5 gal/sk

**LONG STRING** - Lead: Premium Lite II Cement + 3lbs/sk BA-90 + 3% KCl + .25 lbs/sk Cello Flake + 2 lbs/sk Kol Seal + 10% Bentonite + .5% Sodium Metasilicate  
Weight: 11.0 PPG YIELD: 3.43 Cu Ft/sk H<sub>2</sub>O Req: 21.04 gal/sk

Tail: 50-50 Poz-Class G Cement + 3% KCl + .25 lbs/sk Cello Flake + 2% Bentonite + .3% Sodium Metasilicate  
Weight: 14.2 PPG YIELD: 1.59 Cu Ft/sk H<sub>2</sub>O Req: 7.88 gal/sk

24. Name & Signature Mandie Crozier Regulatory Specialist Date 6/16/2006  
**Mandie Crozier**

(This space for State use only)

API Number Assigned

43-013-33222

APPROVAL

RECEIVED

JUN 23 2006

DIV. OF OIL, GAS & MINING

\*See Instructions on Reverse Side  
Approved by the  
Utah Division of  
Oil, Gas and Mining

Date:

By:

07-31-06  
[Signature]

*NEWFIELD PRODUCTION COMPANY*

WELL LOCATION, WELLS DRAW  
M-32-8-16, LOCATED AS SHOWN IN  
THE NW 1/4 SE 1/4 OF SECTION 32,  
T8S, R16E, S.L.B.&M. DUCHESNE  
COUNTY, UTAH.



**Note:**

1. The bottom of hole bears N44°08'20"W  
906.24' from the well head.

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
MY KNOWLEDGE AND BELIEF. No. 189377

STACY W.  
STEWART  
REGISTERED LAND SURVEYOR  
REGISTRATION No. 00250  
STATE OF UTAH

**TRI STATE LAND SURVEYING & CONSULTING**

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

DATE SURVEYED:  
05-23-06

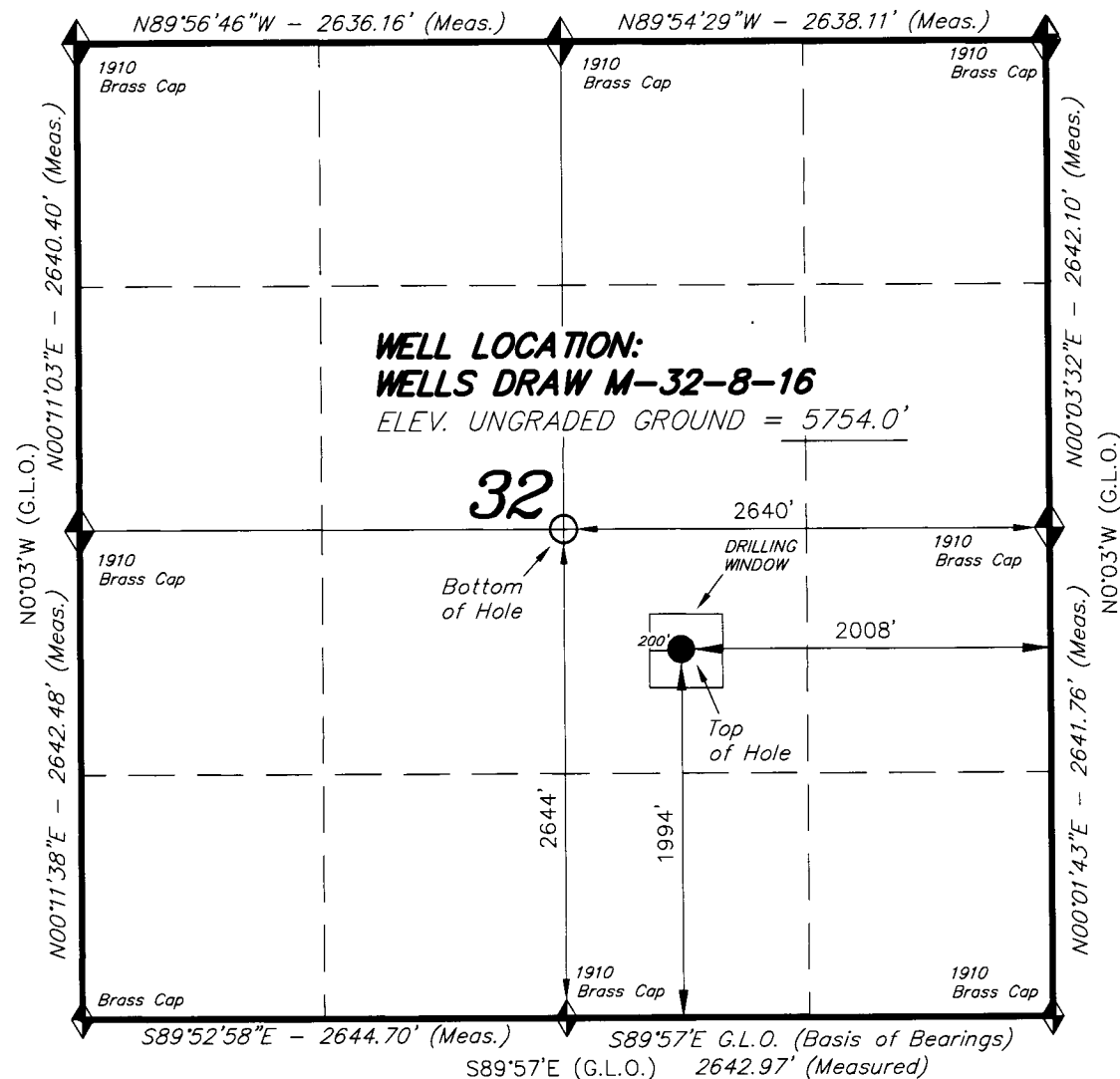
SURVEYED BY: C.M.

DATE DRAWN:  
05-24-06

DRAWN BY: F.T.M.

REVISÉD:

SCALE: 1" = 1000'



 = SECTION CORNERS LOCATED

BASIS OF ELEV;  
U.S.G.S. 7-1/2 min QUAD (MYTON SW)

WELLS DRAW M-32-8-16  
(Surface Location) NAD 83  
LATITUDE = 40° 04' 21.57"  
LONGITUDE = 110° 08' 27.74"



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

July 28, 2006

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2006 Plan of Development Wells Draw Unit,  
Duchesne County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2006 within the Wells Draw Unit, Duchesne County, Utah.

API#	WELL NAME	LOCATION
------	-----------	----------

(Proposed PZ Green River)

43-013-33222	Wells Draw St M-32-8-16 Sec 32 T08S R16E 1994 FSL 2008 FEL	
	BHL Sec 32 T08S R16E 2644 FSL 2640 FEL	

These wells are part of a 20 acre infill program in the Greater Monument Butte Field. Telephone conversation with Kelly Donohoue, Newfield, indicated that they will apply for exceptions to the locating and siting requirements of the State of Utah (R649-3-2) on a well by well basis. Newfield is currently scheduled to seek relief on a unit basis at the September meeting of the Board of Oil Gas and Mining.

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File - Wells Draw Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:7-28-06

## DIVISION OF OIL, GAS AND MINING

### ***SPUDDING INFORMATION***

Name of Company: NEWFIELD PRODUCTION COMPANY

Well Name: WELLS DRAW ST M-32-8-16

Api No: 43-013-33222 Lease Type: STATE

Section 32 Township 08S Range 16E County DUCHESNE

Drilling Contractor NDSI RIG # NS#1

### **SPUDDED:**

Date 12/19/06

Time NOON

How DRY

***Drilling will Commence:*** \_\_\_\_\_

Reported by DON BASTIAN

Telephone # (435) 823-6012

Date 12/19/2006 Signed CHD

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ENTITY ACTION FORM - FORM 6

OPERATOR: NEWFIELD PRODUCTION COMPANY  
ADDRESS: RT. 3 BOX 3630  
WYTON, UT 84252

OPERATOR ACCT. NO. N2695

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION				COUNTY	SPUD DATE	EFFECTIVE DATE
					Q1	Q2	T	R			
B	99999	12418	43-013-33463	WEST POINT FEDERAL 4A-18-8-16	NW1/4	18	9S	16E	DUCHESNE	12/14/06	
WELL 1 COMMENTS: <i>GRRV</i>											
B	99999	12418	43-013-32784	WEST POINT FEDERAL 3-18-8-16	NW1/4	18	9S	16E	DUCHESNE	12/18/06	12/21/06
WELL 2 COMMENTS: <i>GRRV</i>											
B	99999	12276	43-013-33222	WELLS DRAW ST N-32-8-16	NW1/4	32	8S	16E	DUCHESNE	12/18/2006	12/21/06
WELL 3 COMMENTS: <i>GRRV BHL = C Sec 32</i>											
WELL 6 COMMENTS:											
WELL 6 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group of wells)
- C - Re-design well from one existing entity to another existing entity
- D - Re-design well from one existing entity to new entity
- E - Other (Specify in comments section)

NOTE: Use CURRENT entity number only when Action Code was selected.

*Lana Nebeker*  
Signature

LANA NEBEKER

Production Analyst  
Title

December 18, 2006  
Date

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DEC 20 2006

DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NUMBER: Wells Draw State M-32-8-1
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052		7. UNIT or CA AGREEMENT NAME: WELLS DRAW UNIT
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 1994 FSL 2008 FEL		8. WELL NAME and NUMBER: WELLS DRAW STATE #M-32-8-
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NWSE, 32, T8S, R16E		9. API NUMBER: 4301333222
		10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE
		COUNTY: DUCHESNE
		STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/STOP) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARITLY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLAIR <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: - Spud Notice
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  12/21/2006			

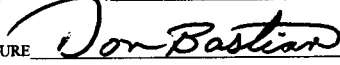
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

On 12/19/06.MIRU NDSI NS#1.Spud well @ 12:00pm. Drill 300' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24 # csgn. Set @ 299.09'On 10/15/05 cement with 160 sks of class "G" w/ 3% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/ sk yeild. Returned 7 bbls cement to pit. WOC.

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DEC 29 2006

DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Don Bastian	TITLE Drilling Foreman
SIGNATURE 	DATE 12/21/2006

(This space for State use only)

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8 CASING SET AT 299.09

LAST CASING 8 5/8" SET AT 299.09'  
 DATUM 12' KB  
 DATUM TO CUT OFF CASING \_\_\_\_\_  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 310' LOGGER \_\_\_\_\_  
 HOLE SIZE 12 1/4

OPERATOR NewField Production Company  
 WELL Wells Draw State M-32-8-16  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # NDSI NS#1

## LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Shoe Joint 41.19'					
		WHI - 92 csg head			8rd	A	0.95
7	8 5/8"	Maverick ST&C csg	24#	J-55	8rd	A	287.24
		GUIDE shoe			8rd	A	0.9
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			289.09
TOTAL LENGTH OF STRING		289.09	7	LESS CUT OFF PIECE			2
LESS NON CSG. ITEMS		1.85		PLUS DATUM TO T/CUT OFF CSG			12
PLUS FULL JTS. LEFT OUT		0		CASING SET DEPTH			299.09
TOTAL		287.24	7	} COMPARE			
TOTAL CSG. DEL. (W/O THRDS)		287.24	7				
TIMING		1ST STAGE					
BEGIN RUN CSG.		Spud	12/19/2006	12:00 PM	GOOD CIRC THRU JOB Yes		
CSG. IN HOLE			12/20/2006	10:00AM	Bbls CMT CIRC TO SURFACE 7		
BEGIN CIRC			12/21/2006	10:25 AM	RECIPROCATED PIPE FOR THRU FT STROKE		
BEGIN PUMP CMT			12/21/2006	10:42 AM	N/A		
BEGIN DSPL. CMT			12/21/2006	10:55 AM	BUMPED PLUG TO 156 PSI		
PLUG DOWN			12/21/2006	11:02 AM			
CEMENT USED		6 CEMENT COMPANY- B. J.					
STAGE	# SX	CEMENT TYPE & ADDITIVES					
1	160	Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield					
CENTRALIZER & SCRATCHER PLACEMENT			SHOW MAKE & SPACING				
Centralizers - Middle first, top second & third for 3							

COMPANY REPRESENTATIVE Don Bastian

DATE 12/21/2006

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DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:  
UTAH STATE ML-21836

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ OTHER

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:  
WELLS DRAW UNIT

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

8. WELL NAME and NUMBER:  
WELLS DRAW STATE #M-32-8-16

3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER 435.646.3721

9. API NUMBER:  
4301333222

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 1994 FSL 2008 FEL

10. FIELD AND POOL, OR WILDCAT:  
MONUMENT BUTTE

COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NWSE, 32, T8S, R16E

STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  01/04/2007	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Weekly Status Report
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

On 12/24/06 MIRU NDSI Rig # 2. Set all equipment. Pressure test Kelly, TIW, Choke manifold, & Bop's to 2,000 psi. Test 8.625 csgn to 1,500 psi on 12/26/06. Vernal BLM field, & Roosevelt DOGM office was notified of test. PU BHA and tag cement @ 258'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 6,560'. Lay down drill string & BHA. Open hole log w/ Dig/SP/GR log's TD to surface. PU & TIH with Guide shoe, shoe jt, float collar, 155 jt's of 5.5 J-55, 15.5# csgn. Set @ 6542.13' / KB. Cement with 350 sks cement mixed @ 11.0 ppg & 3.43 yld. Then 450 sks cement mixed @ 14.4 ppg & 1.24 yld. With 20 bbls cement returned to pit. Nipple down Bop's. Drop slips @90,000 #'s tension. Release rig 6:30 AM 1/4/07.

NAME (PLEASE PRINT) Alvin Nielsen

TITLE Drilling Foreman

SIGNATURE

DATE 01/04/2007

(This space for State use only)

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JAN 08 2007

DIV. OF OIL, GAS & MINING

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

5 1/2" CASING SET AT 6542.13

LAST CASING 8 5/8" SET # 299.09'  
 DATUM 12' KB  
 DATUM TO CUT OFF CASING 12'  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 6558 Loggers 6576'  
 HOLE SIZE 7 7/8"

Fit cllr @ 6502.29  
 OPERATOR Newfield Production Company  
 WELL WD State M-32-8-16  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # NDSI #2

## LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Landing Jt					14
		<b>Short jt</b> 4118.79' (705')					
<b>155</b>	<b>5 1/2"</b>	ETC LT & C casing	<b>15.5#</b>	<b>J-55</b>	<b>8rd</b>	<b>A</b>	6488.29
		Float collar					0.6
<b>1</b>	<b>5 1/2"</b>	ETC LT&C csg	<b>15.5#</b>	<b>J-55</b>	<b>8rd</b>	<b>A</b>	40.59
		<b>GUIDE</b> shoe			<b>8rd</b>	<b>A</b>	0.65
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			6544.13
TOTAL LENGTH OF STRING		6544.13	156	LESS CUT OFF PIECE			14
LESS NON CSG. ITEMS		15.25		PLUS DATUM TO T/CUT OFF CSG			12
PLUS FULL JTS. LEFT OUT		125.7	3	CASING SET DEPTH			<b>6542.13</b>
TOTAL		<b>6654.58</b>	159	} COMPARE			
TOTAL CSG. DEL. (W/O THRDS)		6654.58	159				
TIMING		1ST STAGE	2nd STAGE	GOOD CIRC THRU JOB <u>Yes</u>			
BEGIN RUN CSG.		1/3/2007	10:30PM	Bbls CMT CIRC TO SURFACE <u>20</u>			
CSG. IN HOLE		1/4/2007	1:30AM	RECIPROCATED PIPE FOR <u>THRUSTROKE</u> <u>NA</u>			
BEGIN CIRC		1/4/2007	1:30AM	DID BACK PRES. VALVE HOLD ? <u>Yes</u>			
BEGIN PUMP CMT		1/4/2007	4:05AM	BUMPED PLUG TO <u>1890</u> PSI			
BEGIN DSPL. CMT		1/4/2007	5:08AM				
PLUG DOWN		<b>1/4/2007</b>	<b>5:37AM</b>				

CEMENT USED		CEMENT COMPANY- <b>B. J.</b>	
STAGE	# SX	CEMENT TYPE & ADDITIVES	
<b>1</b>	<b>350</b>	Premlite II w/ 10% gel + 3 % KCL, 3#s /sk CSE + 2# sk/kolseal + 1/2#s/sk Cello Flake	
		mixed @ 11.0 ppg W / 3.43 cf/sk yield	
<b>2</b>	<b>450</b>	50/50 poz W/ 2% Gel + 3% KCL, .5%EC1, 1/4# sk C.F. 2% gel. 3% SM mixed @ 14.4 ppg W/ 1.24 YLD	
CENTRALIZER & SCRATCHER PLACEMENT		SHOW MAKE & SPACING	
Centralizers - Middle first, top second & third. Then every third collar for a total of 20.			

COMPANY REPRESENTATIVE Don Bastian DATE 1/4/2007

JAN 08 2007

DIV. OF OIL, GAS & MINING



**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:  
UTAH STATE ML-21836

**SUNDRY NOTICES AND REPORTS ON WELLS**

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1. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER 435.646.3721

4. LOCATION OF WELL:

FOOTAGES AT SURFACE: 1994 FSL 2008 FEL

OTR/OTR SECTION. TOWNSHIP. RANGE. MERIDIAN: NWSE, 32, T8S, R16E

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:  
WELLS DRAW UNIT

8. WELL NAME and NUMBER:  
WELLS DRAW STATE #M-32-8-16

9. API NUMBER:  
4301333222

10. FIELD AND POOL, OR WILDCAT:  
MONUMENT BUTTE

COUNTY: DUCHESNE

STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  02/23/2007	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Weekly Status Report
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above subject well was completed on 02/05/07, attached is the daily completion status report.

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FEB 27 2007

DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Jentri Park

TITLE Production Clerk

SIGNATURE

DATE 02/23/2007

(This space for State use only)

## Daily Activity Report

Format For Sundry

**WLLS DRW M-32-8-16**

**12/1/2006 To 4/28/2007**

**1/16/2007 Day: 1**

**Completion**

Rigless on 1/9/2007 - Install 5M frac head. NU 6" 5M Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 6413' & cement top @ 20'. Perforate stage #1. CP3 sds @ 6150- 66' w/ 3 1/8" Slick guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 64 shots. 154 BWTR. SIFN.

**1/25/2007 Day: 2**

**Completion**

Rigless on 1/24/2007 - RU BJ Services "Ram Head" frac flange. RU BJ & frac stage #1, CP3 sds down casing w/ 20,239#'s of 20/40 sand in 443 bbls of Lightning 17 frac fluid. Open well w/ 0 psi on casing. Perfs broke down @ 2707 psi. Treated @ ave pressure of 2745 w/ ave rate of 25.1 bpm w/ 6.5 ppg of sand. Cut sand early due to blender break down. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2348. 597 bbls EWTR. Leave pressure on well. RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" (6K) composite flow through frac plug & 6', 10' perf guns. Went to set plug & 6' gun went off perfs @ 6073-6079'. RIH w/ frac plug & 6', 10' perf guns. Set plug @ 6065'. Perforate CP2 sds @ 6028-38', CP.5 sds @ 5957-63' w/ 3-1/8" Slick Guns (23 gram, .43"HE, 90°) w/ 4 spf for total of 64 shots in 3 runs due to miss fire. RU BJ & frac stage #2 w/ 45,313#'s of 20/40 sand in 448 bbls of Lightning 17 frac fluid. Open well w/ 1590 psi on casing. Perfs broke down @ 3048 psi. Treated @ ave pressure of 1927 w/ ave rate of 25.2 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2077. 1045 bbls EWTR. Leave pressure on well. U WLT. RIH w/ frac plug & 14' perf guns. Set plug @ 5890'. Perforate LODC sds @ 5790-5804' w/ 4 spf for total of 56 shots. RU BJ & frac stage #3 w/ 100,646#'s of 20/40 sand in 716 bbls of Lightning 17 frac fluid. Open well w/ 1730 psi on casing. Perfs broke down @ 3580 psi. Treated @ ave pressure of 2780 w/ ave rate of 25 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 3553. 1761 bbls EWTR. Leave pressure on well. RU WLT. RIH w/ frac plug & 14' perf gun. Set plug @ 5708'. Perforate LODC sds @ 5672-5686' & 5601-5615' w/ 4 spf for total of 112 shots. Tagged sand @ 5670' on second gun run. Flow well back. Well flowed for 1 hours & died w/ 60 bbls rec'd. SIFN. Didn't clean-up.

**1/26/2007 Day: 3**

**Completion**

NC #1 on 1/25/2007 - Thaw well head out. Open well w/ 0 psi. RD BJ & WLT. MIRUSU. SIFN.

**1/29/2007 Day: 4**

**Completion**

NC #1 on 1/26/2007 - 6:30AM R/U NDSI H/Oiler, Thau BOP& Well HD, P/U & RIH w/-N/C, 175 Jts Tbg To Fill @ 5528', R/U R/pmp & C/Out To Plg @ 5708', Curc Well Clean, POOH w/-4 Jts Tbg, Wt 1 Hr 30 Min, RIH w/-Tbg To Plg @ 5708' No Fill, POOH W/-181 Jts Tbg, N/C. SWI, C/SDFN. Well Gained 20 Bbls Wtr On TIH w/-Tbg.

**1/30/2007 Day: 5**

**Completion**

NC #1 on 1/29/2007 - Thaw well out. RU BJ Services "Ram Head" frac flange. RU BJ & frac LODC sds, stage #4 down casing w/ 182,227#'s of 20/40 sand in 1259 bbls of Lightning 17 frac fluid. Open well w/ 0 psi on casing. Perfs broke down @ 2933 psi. Treated @ ave pressure of 2172 w/ ave rate of 24.8 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2100. 2224 bbls EWTR. Leave pressure on well. Thaw well out. RU BJ Services "Ram Head" frac flange. RU BJ & frac LODC sds, stage #4 down casing w/ 182,227#'s of 20/40 sand in 1259 bbls of Lightning 17 frac fluid. Open well w/ 0 psi on casing. Perfs broke down @ 2933 psi. Treated @ ave pressure of 2172 w/ ave rate of 24.8 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2100. 2224 bbls EWTR. Leave pressure on well.

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1/31/2007 Day: 6

Completion

NC #1 on 1/30/2007 - Thaw well out. RU BJ & frac stage #6 w/ 20,395#'s of 20/40 sand in 379 bbls of Lightning 17 frac fluid. Open well w/ 17 psi on casing. Perfs broke down @ 1373 psi. Treated @ ave pressure of 2425 w/ ave rate of 24.3 bpm w/ 6.5 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2325. 3250 bbls EWTR. Leave pressure on well. RU WLT. RIH w/ frac plug & 8', 6' perf guns. Set plug @ 4680'. Perforate GB6 sds @ 4575-83' & GB4 sds @ 4509-15' w/ 4 spf for total of 56 shots. RU BJ & frac stage #7 w/ 47,204#'s of 20/40 sand in 379 bbls of Lightning 17 frac fluid. Open well w/ 334 psi on casing. Perfs broke down @ 2634 psi. Treated @ ave pressure of 1965 w/ ave rate of 14.4 bpm w/ 8 ppg of sand. ISIP was 2300. 3250 bbls EWTR. RD BJ & WLT. Flow well back. Well flowed for 1.5 hours & died w/ 125 bbls fluid rec'd. RD Cameron BOP & 5M frac head. Instal 3M production head & schaffer BOP. PU bit & bit sub. TIH w/ tbg to tag plug @ 4680'. Circulate well clean. Gained 25 bbls on TIH. SIFN.

---

2/1/2007 Day: 7

Completion

NC #1 on 1/31/2007 - 6:30AM R/U Action H/Oiler, Thau BOP & w/-HD, RIH w/- 4 Jts Tbg To Plg @ 4680', R/U R/pmp, Drill Up Plg, Swvl I/Hle To Fill @ 5087', Drill Up Plg, Swvl I/Hle w/-Tbg To Fill @ 5343', C/Out To Plg @ 5520', Drill Up Plg, Swvl I/Hle To Fill @ 5613', C/Out To Plg @ 5708', Drill Up Plg, Swvl I/Hle To Fill @ 5827', C/Out To Plg @ 5890', Drill Up Plg, SWI, 6:00PM C/SDFN. 95 Bbls Total Wtr Lost For Day.

---

2/2/2007 Day: 8

Completion

NC #1 on 2/1/2007 - 6:30AM R/U ZHO H/Oiler, Thau BOP & w/-HD, RIH w/- Tbg To Fill @ 6037', R/U R/pmp & Nabors Pwr Swvl, C/Out To Plg @ 6065', Drill Up Plg, Swvl I/Hle To Fill @ 6347', C/Out To PBTD @ 6476', Curc Well Clean 1 Hr, R/D Pwr Swvl, POOH w/-4 Jts Tbg, EOB @ 6353', R/U Swab, RIH, IFL @ Surf, Made 17 Swab Runs Recvred 195 Bbls Wtr, Lite Trce Sand, 1% Oil Cut @ End Of Day, FFL@ 1800', SWI, 5:30PM SDFN. ( Note ) Lost 141 Bbls Wtr On C/Out To PBTD. Total Recovery For Day = 54 Bbls.

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2/5/2007 Day: 9

Completion

NC #1 on 2/2/2007 - 6:30AM OWU, RIH w/-4 Jts Tbg To Fill @ 6465', 11' Of Fill On PBTD, R/U R/pmp C/Out To PBTD @ 6476', Curc Well Clean, POOH w/- 205 Jts Tbg, Bit Sub & Bit. P/U & RIH w/- N/C, 2 Jts Tbg, S/N, 1 Jt Tbg, T/A, 169 Jts Tbg, Set T/A In 15,000 Tension, N/U w/-HD, P/U Stroke & RIH w/-Central Hydraulic 2 1/2x1 3/4x16x19 1/2' RHAC, 4-1 1/2x25' Wt Bars, 107- 7/8x25' Scrapered Rods, SWI, 6:00PM C/SDFN, Total Wtr Loss For Day On C/Out To PBTD = 152 Bbls.

---

**2/6/2007 Day: 10****Completion**

**NC #1 on 2/5/2007 - 6:30AM OWU, RIH w/- 135-7/8x25' Scrapered Rods, 1-7/8x2' Pony, 1- 1 1/2x26' Polish Rod, R/U Unit, R/U R/pmp, Fill Tbg w/-8 Bbls Wtr, Stroke Unit & Tbg To 800 Psi, Good Test. R/D Rig & Eq, Move Out. POP @ 4:00PM w/-123" SL, 5 SPM, ( Final Report ).**

---

**Pertinent Files: Go to File List**

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:  
UTAH STATE ML-21836

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ OTHER

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:  
WELLS DRAW UNIT

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

8. WELL NAME and NUMBER:  
WELLS DRAW STATE #M-32-8-16

3. ADDRESS OF OPERATOR:  
Route 3 Box 3630 CITY Myton STATE UT ZIP 84052

PHONE NUMBER  
435.646.3721

9. API NUMBER:  
4301333222

4. LOCATION OF WELL:

FOOTAGES AT SURFACE: 1994 FSL 2008 FEL

10. FIELD AND POOL, OR WILDCAT:  
MONUMENT BUTTE

COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NWSE, 32, T8S, R16E

STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will 02/02/2007	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input checked="" type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: -
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Formation water is produced to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
**FOR RECORD ONLY**

NAME (PLEASE PRINT) Mandie Crozier

TITLE Regulatory Specialist

SIGNATURE

DATE 02/05/2007

(This space for State use only)

RECEIVED

FEB 06 2007

DIV. OF OIL, GAS AND MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

1a. TYPE OF WORK

OIL WELL ☒ GAS WELL ☐ DRY ☐ Other \_\_\_\_\_

1b. TYPE OF WELL

NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR. ☐ Other \_\_\_\_\_

2. NAME OF OPERATOR

Newfield Exploration Company

3. ADDRESS AND TELEPHONE NO.

1401 17th St. Suite 1000 Denver, CO 80202

4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.)\*

At Surface 1994' FSL, 2008' FEL 2644' FSL 2640' FEL (NW/SE) Sec. 32, T8S, R16E

At top prod. Interval reported below

At total depth

2581' FSL 2746' FEL

14. API NO.

43-013-33222

DATE ISSUED

07/31/06

15. DATE SPUDDED

12/19/06

16. DATE T.D. REACHED

01/03/07

17. DATE COMPL. (Ready to prod.)

02/05/07

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

5754' GL

19. ELEV. CASINGHEAD

5766' KB

20. TOTAL DEPTH, MD & TVD

6576' 6485'

21. PLUG BACK T.D., MD & TVD

6476' 6385'

22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY

----->

ROTARY TOOLS

X

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)\*

Green River 4509'-6166'

25. WAS DIRECTIONAL SURVEY MADE

No Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

Dual Induction Guard, SP, Compensated Density, Compensated Neutron, GR, Caliper, Cement Bond Log

27. WAS WELL CORED

No

23. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8" - J-55	24#	299'	12-1/4"	To surface with 160 sx Class "G" cmt	
5-1/2" - J-55	15.5#	6542'	7-7/8"	350 sx Premlite II and 450 sx 50/50 Poz	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	EOT @ 6237'	TA @ 6138'

31. PERFORATION RECORD (Interval, size and number)

INTERVAL	SIZE	SPF/NUMBER	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
(CP3) 6150'-6166'	.49"	4/64	6150'-6166'	Frac w/ 20,239# 20/40 sand in 443 bbls fluid
(CP2..5) 6028'-6038', 5957'-5963'	.43"	4/64	5957'-6038'	Frac w/ 45,313# 20/40 sand in 448 bbls fluid
(LODC) 5790'-5804'	.43"	4/56	5790'-5804'	Frac w/ 100,646# 20/40 sand in 716 bbls fluid
(LODC) 5601'-5615', 5672'-5686'	.43"	4/112	5601'-5686'	Frac w/ 182,227# 20/40 sand in 1259 bbls fluid
(A5) 5433'-5443'	.43"	4/40	5433'-5443'	Frac w/ 85,362# 20/40 sand in 647 bbls fluid
(D1) 5044'-5049'	.43"	4/20	5044'-5049'	Frac w/ 20,395# 20/40 sand in 379 bbls fluid
(GB6) 4509'-4515', 4575'-4583'	.43"	4/56	4509'-4583'	Frac w/ 47,204# 20/40 sand in 379 bbls fluid

33.\*

PRODUCTION

DATE FIRST PRODUCTION 02/05/07		PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) 2-1/2" x 1-3/4" x 16' x 19 1/2' RHAC w/ eagle valve					WELL STATUS (Producing or shut-in) PRODUCING	
DATE OF TEST 10 day ave	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD ----->	OIL--BBL.S. 27	GAS--MCF. 78	WATER--BBL. 33	GAS-OIL RATIO 2889	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE ----->	OIL--BBL.	GAS--MCF.	WATER--BBL.		OIL GRAVITY-API (CORR.)	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Sold & Used for Fuel

MAR 01 2007

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

DIV. OF OIL, GAS & MINING

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Jentri Park

TITLE

Production Clerk

DATE

2/27/2007

JP

\*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries);				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
			Well Name	Garden Gulch Mkr	3982'	
			Wells Draw M-32-8-16	Garden Gulch 1	4206'	
				Garden Gulch 2	4320'	
				Point 3 Mkr	4589'	
				X Mkr	4858'	
				Y-Mkr	4892'	
				Douglas Creek Mkr	5006'	
				BiCarbonate Mkr	5245'	
				B Limestone Mkr	5357'	
				Castle Peak	5931'	
				Basal Carbonate	6373'	
				Total Depth (LOGGERS	6576'	



**Scientific  
Drilling**

## Directional Survey Certification

7327 West Barton Road

Casper, WY 82604

(307)-472-6621 Fax (307) 472-5439

RE: _____	Newfield Exploration Co.	Operator
_____	Wells Draw M-32-8-16	Well Name & No.
_____	Duchesne County, UT	County & State
_____	41DEF06121148	SDI Job No.

I, Julie Cruse, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 321 feet to a measured depth of 6560 feet is true and correct as determined from all available records.

Julie Cruse

Signature

Rockies Region Engineer

Title

Scientific Drilling International

Company

State of : Wyoming }

County of : Natrona } ss

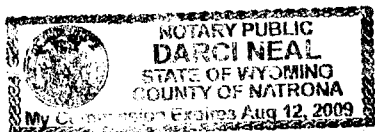
On this 5th day of January, 2007, before me personally appeared Julie Cruse to me known as the person described in and who executed the foregoing instrument and acknowledged that (s)he executed the same as his/her free act and deed.

Seal

Darci Neal

Notary Public

Aug 12, 2009  
My Commission Expires



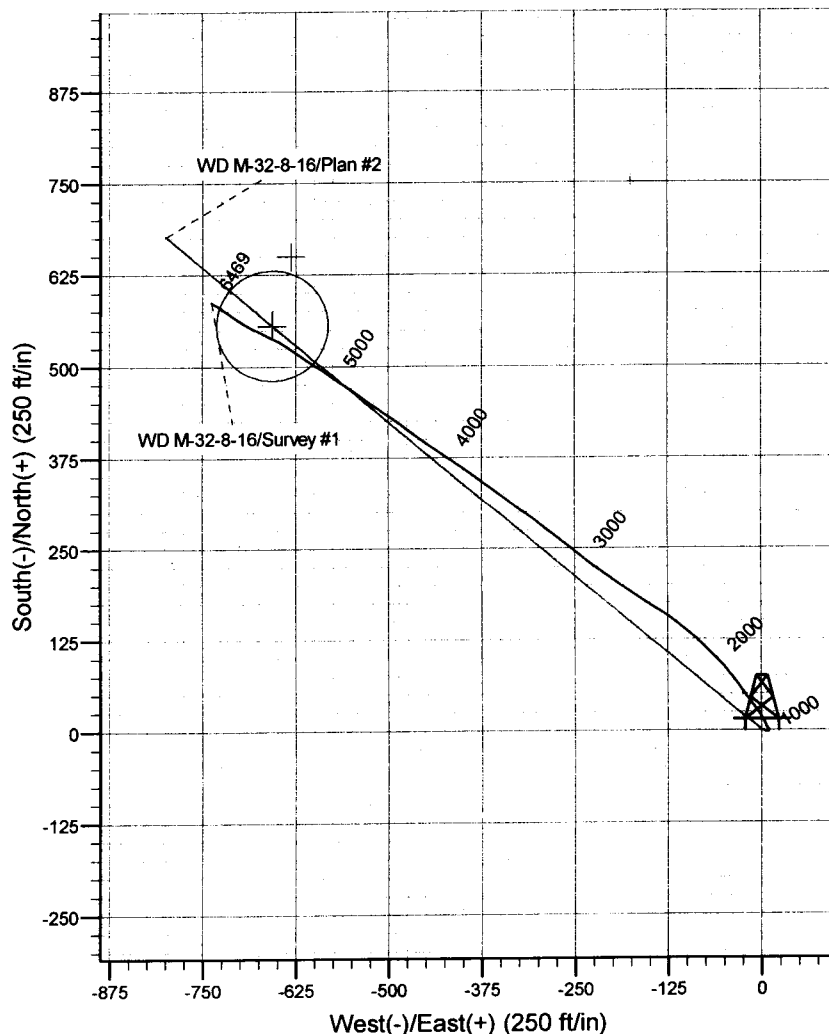
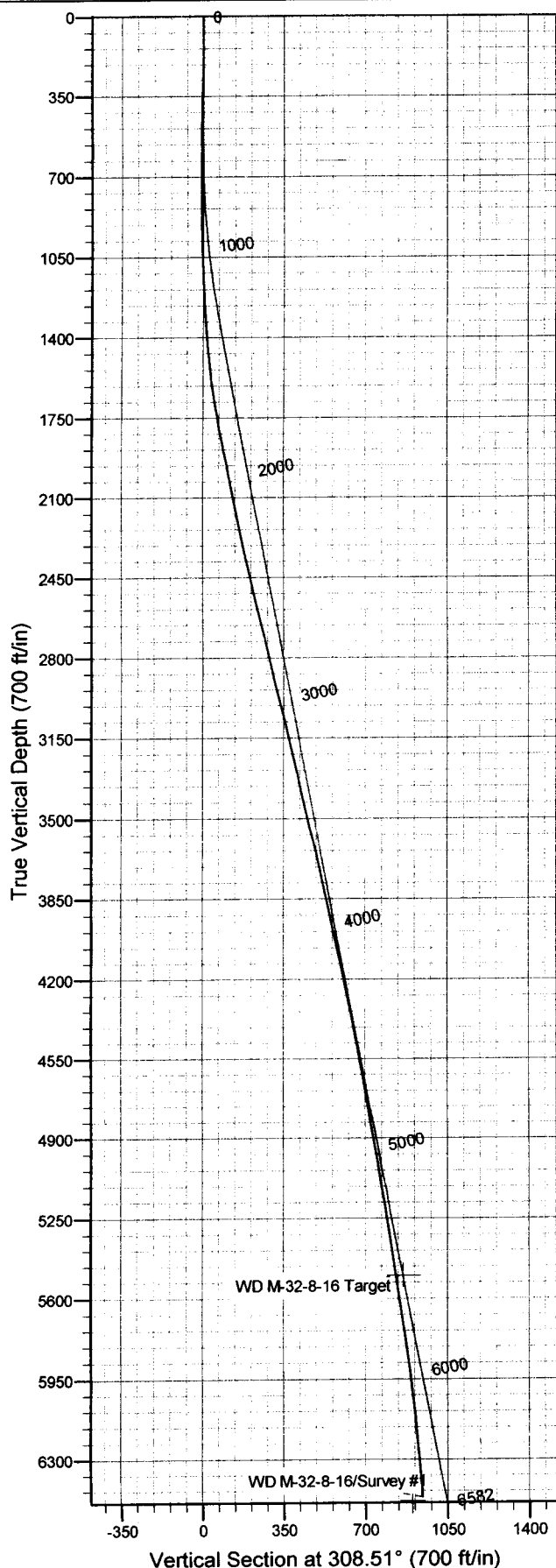




Scientific Drilling  
Rocky Mountain Operations

Project: Duchesne County, UT  
Site: Wells Draw M-32-8-16  
Well: WD M-32-8-16  
Wellbore: OH  
Design: OH

Newfield Exploration Co.



WELL DETAILS: WD M-32-8-16

+N/-S	+E/-W	Ground Level:	GL 5754' & RKB 12' @ 5766.00ft (NDSI 2)	Slot	
		Northing	Easting	Latitude	Longitude
0.00	0.00	7198093.05	2020697.66	40° 4' 21.570 N	110° 8' 27.740 W

REFERENCE INFORMATION

Co-ordinate (NE) Reference: Well WD M-32-8-16, True North  
Vertical (TVD) Reference: GL 5754' & RKB 12' @ 5766.00ft (NDSI 2)  
Section (VS) Reference: Slot - (0.00N, 0.00E)  
Measured Depth Reference: GL 5754' & RKB 12' @ 5766.00ft (NDSI 2)  
Calculation Method: Minimum Curvature  
Local North: True  
Location: Sec. 32 T8S R16E

PROJECT DETAILS: Duchesne County, UT

Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Utah Central Zone

Survey: Survey #1 (WD M-32-8-16/OH)

Created By: Julie Cruse Date: 2007-01-05

# **Newfield Exploration Co.**

**Duchesne County, UT**

**Wells Draw M-32-8-16**

**WD M-32-8-16**

**OH**

**Survey: Survey #1**

## **Standard Survey Report**

**05 January, 2007**

# Scientific Drilling

## Survey Report

**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT  
**Site:** Wells Draw M-32-8-16  
**Well:** WD M-32-8-16  
**Wellbore:** OH  
**Design:** OH

**Local Co-ordinate Reference:** Well WD M-32-8-16  
**TVD Reference:** GL 5754' & RKB 12' @ 5766.00ft (NDSI 2)  
**MD Reference:** GL 5754' & RKB 12' @ 5766.00ft (NDSI 2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.14.1.0 Single User Db

<b>Project</b>	Duchesne County, UT	<b>System Datum:</b>	Mean Sea Level
<b>Map System:</b>	US State Plane 1983		
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Utah Central Zone		

**Site** Wells Draw M-32-8-16, Sec. 32 T8S R16E

<b>Site Position:</b>		<b>Northing:</b>	7,198,093.05 ft	<b>Latitude:</b>	40° 4' 21.570 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,020,697.66 ft	<b>Longitude:</b>	110° 8' 27.740 W
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	0.000 in	<b>Grid Convergence:</b>	0.87 °

**Well** WD M-32-8-16, Sec 32 T8S R16E; SHL: 1994' FSL, 2008' FEL

<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	7,198,093.05 ft	<b>Latitude:</b>	40° 4' 21.570 N
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	2,020,697.66 ft	<b>Longitude:</b>	110° 8' 27.740 W
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	5,754.00 ft

**Wellbore** OH

<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF200510	2006-12-18	11.91	65.92	52,735

**Design** OH

**Audit Notes:**

**Version:** 1.0

**Phase:** ACTUAL

**Tie On Depth:**

<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	308.51

**Survey Program** **Date** 2007-01-05

<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
321.00	6,560.00	Survey #1 (OH)	MWD	MWD - Standard

**Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
321.00	1.14	105.77	320.98	-0.87	3.07	-2.95	0.36	0.36	0.00
351.00	1.03	101.05	350.97	-1.00	3.62	-3.46	0.47	-0.37	-15.73
382.00	1.29	98.92	381.97	-1.11	4.24	-4.01	0.85	0.84	-6.87
413.00	1.07	109.13	412.96	-1.26	4.86	-4.59	0.98	-0.71	32.94
444.00	1.24	107.19	443.95	-1.45	5.46	-5.17	0.56	0.55	-6.26
474.00	1.24	103.71	473.95	-1.62	6.08	-5.77	0.25	0.00	-11.60
505.00	1.25	102.49	504.94	-1.78	6.74	-6.38	0.09	0.03	-3.94
536.00	1.17	106.99	535.93	-1.94	7.37	-6.98	0.40	-0.26	14.52
566.00	0.93	84.07	565.93	-2.01	7.90	-7.43	1.60	-0.80	-76.40
596.00	0.89	76.30	595.92	-1.93	8.37	-7.75	0.43	-0.13	-25.90
626.00	1.05	57.28	625.92	-1.72	8.83	-7.98	1.19	0.53	-63.40
657.00	1.05	51.04	656.91	-1.39	9.29	-8.14	0.37	0.00	-20.13

# Scientific Drilling

## Survey Report

**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT  
**Site:** Wells Draw M-32-8-16  
**Well:** WD M-32-8-16  
**Wellbore:** OH  
**Design:** OH

**Local Co-ordinate Reference:**  
**TVD Reference:**  
**MD Reference:**  
**North Reference:**  
**Survey Calculation Method:**  
**Database:**

Well WD M-32-8-16  
 GL 5754' & RKB 12' @ 5766.00ft (NDSI 2)  
 GL 5754' & RKB 12' @ 5766.00ft (NDSI 2)  
 True  
 Minimum Curvature  
 EDM 2003.14.1.0 Single User Db

### Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
687.00	1.07	38.99	686.91	-1.00	9.68	-8.20	0.74	0.07	-40.17
718.00	1.02	18.90	717.90	-0.51	9.95	-8.11	1.19	-0.16	-64.81
748.00	0.68	6.51	747.90	-0.08	10.06	-7.92	1.28	-1.13	-41.30
779.00	0.73	359.14	778.90	0.30	10.08	-7.70	0.33	0.16	-23.77
810.00	0.50	329.82	809.90	0.61	10.01	-7.45	1.23	-0.74	-94.58
840.00	0.56	301.11	839.90	0.80	9.81	-7.18	0.90	0.20	-95.70
871.00	0.81	288.22	870.89	0.95	9.48	-6.83	0.94	0.81	-41.58
902.00	0.80	297.26	901.89	1.11	9.08	-6.41	0.41	-0.03	29.16
933.00	1.02	298.93	932.89	1.35	8.64	-5.92	0.71	0.71	5.39
965.00	1.15	316.43	964.88	1.72	8.17	-5.33	1.11	0.41	54.69
996.00	1.52	326.88	995.87	2.29	7.73	-4.63	1.42	1.19	33.71
1,027.00	1.69	329.78	1,026.86	3.03	7.28	-3.81	0.61	0.55	9.35
1,058.00	2.05	331.41	1,057.84	3.91	6.78	-2.87	1.17	1.16	5.26
1,089.00	2.19	334.23	1,088.82	4.93	6.26	-1.83	0.56	0.45	9.10
1,121.00	2.61	335.85	1,120.79	6.14	5.70	-0.63	1.33	1.31	5.06
1,152.00	2.79	336.41	1,151.76	7.48	5.10	0.66	0.59	0.58	1.81
1,184.00	3.05	335.58	1,183.72	8.97	4.44	2.11	0.82	0.81	-2.59
1,215.00	3.17	334.16	1,214.67	10.49	3.73	3.61	0.46	0.39	-4.58
1,246.00	3.52	334.49	1,245.62	12.12	2.94	5.24	1.13	1.13	1.06
1,277.00	3.71	334.04	1,276.56	13.88	2.09	7.00	0.62	0.61	-1.45
1,309.00	4.19	332.23	1,308.48	15.85	1.10	9.01	1.55	1.50	-5.66
1,340.00	4.43	330.56	1,339.39	17.89	-0.02	11.15	0.87	0.77	-5.39
1,371.00	4.93	330.66	1,370.29	20.09	-1.26	13.50	1.61	1.61	0.32
1,402.00	5.30	328.16	1,401.17	22.47	-2.67	16.08	1.39	1.19	-8.06
1,432.00	5.65	324.40	1,431.03	24.85	-4.26	18.80	1.67	1.17	-12.53
1,464.00	6.07	324.76	1,462.86	27.51	-6.15	21.94	1.32	1.31	1.12
1,495.00	6.45	324.33	1,493.68	30.27	-8.11	25.19	1.24	1.23	-1.39
1,527.00	6.67	323.77	1,525.47	33.23	-10.26	28.71	0.72	0.69	-1.75
1,558.00	7.05	323.76	1,556.25	36.21	-12.45	32.29	1.23	1.23	-0.03
1,590.00	7.44	323.73	1,587.99	39.47	-14.84	36.18	1.22	1.22	-0.09
1,621.00	8.28	323.69	1,618.70	42.88	-17.34	40.27	2.71	2.71	-0.13
1,653.00	8.59	325.26	1,650.35	46.70	-20.07	44.78	1.21	0.97	4.91
1,684.00	9.19	324.87	1,680.98	50.63	-22.81	49.38	1.95	1.94	-1.26
1,715.00	9.98	326.19	1,711.55	54.89	-25.73	54.31	2.65	2.55	4.26
1,746.00	10.55	325.36	1,742.05	59.45	-28.84	59.59	1.90	1.84	-2.68
1,777.00	11.08	323.99	1,772.50	64.20	-32.21	65.17	1.90	1.71	-4.42
1,809.00	11.44	324.25	1,803.89	69.26	-35.87	71.19	1.14	1.12	0.81
1,841.00	11.76	323.70	1,835.23	74.47	-39.65	77.39	1.06	1.00	-1.72
1,872.00	11.59	321.63	1,865.59	79.45	-43.46	83.47	1.46	-0.55	-6.68
1,903.00	11.53	321.19	1,895.96	84.31	-47.33	89.53	0.34	-0.19	-1.42
1,934.00	11.44	320.67	1,926.34	89.10	-51.22	95.56	0.44	-0.29	-1.68
1,965.00	11.72	317.46	1,956.71	93.80	-55.30	101.67	2.27	0.90	-10.35
1,996.00	11.89	317.33	1,987.05	98.47	-59.59	107.94	0.56	0.55	-0.42
2,087.00	11.62	314.39	2,076.15	111.77	-72.49	126.32	0.72	-0.30	-3.23
2,182.00	11.21	312.37	2,169.27	124.69	-86.15	145.05	0.60	-0.43	-2.13
2,276.00	11.40	309.60	2,261.44	136.77	-100.06	163.45	0.61	0.20	-2.95
2,368.00	12.31	308.42	2,351.48	148.66	-114.75	182.35	1.02	0.99	-1.28
2,461.00	13.09	304.38	2,442.21	160.76	-131.21	202.77	1.27	0.84	-4.34
2,556.00	13.42	303.35	2,534.68	172.90	-149.30	224.48	0.43	0.35	-1.08
2,650.00	13.61	302.92	2,626.07	184.91	-167.69	246.35	0.23	0.20	-0.46
2,743.00	13.30	306.26	2,716.52	197.18	-185.51	267.93	0.90	-0.33	3.59
2,838.00	13.24	306.59	2,808.99	210.13	-203.05	289.72	0.10	-0.06	0.35
2,932.00	13.30	305.60	2,900.48	222.84	-220.49	311.28	0.25	0.06	-1.05
3,026.00	14.40	309.21	2,991.74	236.52	-238.34	333.77	1.49	1.17	3.84

# Scientific Drilling

## Survey Report

Company: Newfield Exploration Co.  
Project: Duchesne County, UT  
Site: Wells Draw M-32-8-16  
Well: WD M-32-8-16  
Wellbore: OH  
Design: OH

Local Co-ordinate Reference:  
TVD Reference:  
MD Reference:  
North Reference:  
Survey Calculation Method:  
Database:

Well WD M-32-8-16  
GL 5754' & RKB 12' @ 5766.00ft (NDSI 2)  
GL 5754' & RKB 12' @ 5766.00ft (NDSI 2)  
True  
Minimum Curvature  
EDM 2003.14.1.0 Single User Db

### Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,119.00	14.67	308.23	3,081.77	251.12	-256.55	357.11	0.39	0.29	-1.05
3,212.00	12.66	307.87	3,172.13	264.67	-273.84	379.07	2.16	-2.16	-0.39
3,304.00	13.48	309.13	3,261.75	277.62	-290.12	399.88	0.94	0.89	1.37
3,398.00	12.36	308.18	3,353.36	290.75	-306.53	420.89	1.21	-1.19	-1.01
3,493.00	13.27	305.07	3,446.00	303.30	-323.44	441.95	1.20	0.96	-3.27
3,585.00	13.35	307.42	3,535.53	315.83	-340.52	463.11	0.59	0.09	2.55
3,679.00	13.58	307.71	3,626.94	329.17	-357.87	484.99	0.26	0.24	0.31
3,772.00	12.47	307.18	3,717.55	341.92	-374.51	505.95	1.20	-1.19	-0.57
3,866.00	11.74	305.47	3,809.46	353.60	-390.38	525.64	0.87	-0.78	-1.82
3,960.00	11.85	304.73	3,901.47	364.65	-406.10	544.82	0.20	0.12	-0.79
4,053.00	12.56	304.68	3,992.37	375.84	-422.27	564.44	0.76	0.76	-0.05
4,147.00	12.45	304.67	4,084.14	387.42	-439.01	584.75	0.12	-0.12	-0.01
4,239.00	11.78	305.42	4,174.09	398.50	-454.82	604.02	0.75	-0.73	0.82
4,337.00	11.09	305.85	4,270.15	409.82	-470.61	623.42	0.71	-0.70	0.44
4,430.00	11.00	308.95	4,361.43	420.64	-484.76	641.23	0.65	-0.10	3.33
4,524.00	10.68	305.06	4,453.75	431.28	-498.86	658.89	0.85	-0.34	-4.14
4,618.00	9.62	304.01	4,546.28	440.68	-512.50	675.42	1.14	-1.13	-1.12
4,711.00	9.51	304.55	4,637.98	449.38	-525.27	690.83	0.15	-0.12	0.58
4,804.00	9.34	308.41	4,729.73	458.43	-537.51	706.04	0.70	-0.18	4.15
4,898.00	9.61	303.15	4,822.45	467.46	-550.06	721.48	0.96	0.29	-5.60
4,991.00	9.87	305.61	4,914.11	476.34	-563.04	737.17	0.53	0.28	2.65
5,086.00	9.48	303.33	5,007.76	485.38	-576.20	753.09	0.58	-0.41	-2.40
5,179.00	9.68	305.02	5,099.46	494.08	-589.00	768.53	0.37	0.22	1.82
5,273.00	8.94	304.76	5,192.22	502.78	-601.47	783.70	0.79	-0.79	-0.28
5,366.00	8.19	301.99	5,284.18	510.41	-613.03	797.50	0.92	-0.81	-2.98
5,460.00	8.18	305.69	5,377.23	517.85	-624.14	810.83	0.56	-0.01	3.94
5,554.00	9.06	304.75	5,470.16	525.97	-635.65	824.89	0.95	0.94	-1.00
5,584.21	9.00	303.47	5,500.00	528.63	-639.57	829.62	0.69	-0.20	-4.24
WD M-32-8-16 Target									
5,648.00	8.89	300.71	5,563.01	533.90	-647.97	839.47	0.69	-0.17	-4.32
5,742.00	8.83	296.15	5,655.89	540.79	-660.70	853.72	0.75	-0.06	-4.85
5,836.00	8.83	297.44	5,748.78	547.30	-673.57	867.85	0.21	0.00	1.37
5,931.00	7.78	298.28	5,842.78	553.70	-685.71	881.33	1.11	-1.11	0.88
6,024.00	7.15	300.30	5,934.99	559.60	-696.25	893.25	0.73	-0.68	2.17
6,117.00	6.33	304.24	6,027.35	565.41	-705.48	904.09	1.01	-0.88	4.24
6,209.00	5.51	303.09	6,118.86	570.67	-713.38	913.55	0.90	-0.89	-1.25
6,302.00	5.11	305.32	6,211.46	575.51	-720.50	922.13	0.48	-0.43	2.40
6,394.00	5.03	304.65	6,303.10	580.17	-727.16	930.24	0.11	-0.09	-0.73
6,487.00	4.58	302.39	6,395.77	584.48	-733.65	938.00	0.52	-0.48	-2.43
6,507.00	4.26	302.03	6,415.71	585.30	-734.95	939.54	1.61	-1.60	-1.80
6,560.00	4.26	302.03	6,468.57	587.39	-738.29	943.45	0.00	0.00	0.00

Projection to TD

# Scientific Drilling

## Survey Report

**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT  
**Site:** Wells Draw M-32-8-16  
**Well:** WD M-32-8-16  
**Wellbore:** OH  
**Design:** OH

**Local Co-ordinate Reference:**  
**TVD Reference:**  
**MD Reference:**  
**North Reference:**  
**Survey Calculation Method:**  
**Database:**

Well WD M-32-8-16  
 GL 5754' & RKB 12' @ 5766.00ft (NDSI 2)  
 GL 5754' & RKB 12' @ 5766.00ft (NDSI 2)  
 True  
 Minimum Curvature  
 EDM 2003.14.1.0 Single User Db

### Targets

#### Target Name

- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
WD M-32-8-16 Target	0.00	0.00	5,500.00	556.00	-657.00	7,198,639.01	2,020,032.28	40° 4' 27.065 N	110° 8' 36.192 W
- survey misses by 32.11ft at 5588.77ft MD (5504.50 TVD, 529.02 N, -640.17 E)									
- Circle (radius 75.00)									
BHL	0.00	0.00	6,486.00	650.00	-632.00	7,198,733.38	2,020,055.85	40° 4' 27.994 N	110° 8' 35.871 W
- survey misses by 124.59ft at 6560.00ft MD (6468.57 TVD, 587.39 N, -738.29 E)									
- Point									

### Survey Annotations

Measured	Vertical	Local Coordinates		Comment
Depth	Depth	+N/-S	+E/-W	
(ft)	(ft)	(ft)	(ft)	
6,560.00	6,468.57	587.39	-738.29	Projection to TD

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_